

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3428

ctttatgtgg gaagaaattt kttttttga ttggggagtg g 41

<210> 3429

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3429

aaatggcctg gttctctgtc mcctttctgt ctgtatgcct c 41

<210> 3430

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3430

ggcagaaggc aaagcttagg wcctagagag tgctggacca c 41

<210> 3431

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3431

caaagcttag gacctagaga rtgctggacc acgccactca c 41

<210> 3432

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3432

cagggattta ttaatgattt mttgtgaaat gtttggaat a 41

<210> 3433

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3433

agtgccggaa tacatttgca ygtaagacag aacgctgcct g 41

<210> 3434

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3434

ggcagagggg ttcagaatc ygcattcca acaatgtctc c 41

<210> 3435

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3435

cgtattgtct gcgggcatcc ygaggaggagg gggctgaaga t 41

<210> 3436

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3436

cccctcaaga gtcagttaa rtgttggtca tgtagtgt c 41

<210> 3437

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3437

atgggagggc ttgtgctca ygaaaacatt ttccagatc a 41

<210> 3438

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3438

tggggatggg gaggactggc rcagggctgc tgtgatgggg t 41

<210> 3439

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3439

ttctgcggtc cctggctccc yacctgactc caggtgaaca a 41

<210> 3440

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3440

gaaagaagtg tgggagcaaa mgcatgatgt tacatgtaga c 41

<210> 3441

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3441

agtgctctag agacaattgg rtccaatgt ggagcaggct g 41

<210> 3442

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3442

ctctatacaa tcattatgct sccattgaaa taataaatac a

41

<210> 3443

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3443

ctccaattcg gtagaaccag rgcttcatct tctctgtcga a

41

<210> 3444

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3444

gtttgcagct gctgtttttc yggcagcaca tctgtgcagg c

41

<210> 85

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3445

ggcattattt gtgaaactta yctaaaatcg aattcgggtc c

41

<210> 3446

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3446

aattaaattt ttgaaatttt rtattaaaaa ttatattagt a

41

<210> 3447

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3447

caggctcaga ggccttggcc yatcacctg gctcacgtgt g

41

<210> 3448

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3448

atgggcctgg acaacagcat mctctggtt agctgggtca t

41

<210> 3449

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3449

cttttagaca gaaaagttac rtgggatatt atctcccaca g

41

<210> 3450

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3450

tatataagga gaaaccagtt raaattacct attgaagaaa c 41

<210> 3451

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3451

ttctgcgtag ttttgggtaa rtcacttacc ttctttagga t 41

<210> 3452

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3452

cagttgcctc atcagaaaga wgaacagcat tacgcctctg c 41

<210> 3453

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3453

agttgagaac agaagatgat wgtcttttcc aatgggacat g

41

<210> 3454

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3454

tggtgttttg ctgagtaat rtttctgaa ctaagcacia c

41

<210> 3455

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3455

ctgttgccctc agtctgggct ycataggcat cagcagcccc a

41

<210> 3456

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3456

tgaagttca agcgagtgct scgtgtcct tacactccac t

41

<210> 3457



<211> 41

<212> DNA

<213> Homo sapiens

<400> 3457

aggaccttac agtgggtagt rtcaggaggg gtcaggggct g 41

<210> 3458

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3458

aaagcaccag cgttagcctc rgtggcttc agcacgattc c 41

<210> 3459

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3459

ccctcctcat ctaaagtga yacatggggc tcatgtgcag g 41

<210> 3460

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3450

catgggatac tcttctgtta kcacagaaga gataaagggc a 41

<210> 3461

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3461

aaagctttgc cattctaggg rcatagcca tacagggtga a 41

<210> 3462

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3462

acccttttg ccatgttgaa rccaccatct ccctgctctg t 41

<210> 3463

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3463

gtcaaagaaa agagacttgt yaagaggtaa gaggccttggc t 41

<210> 3464

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3464

acctttcacc ctcaggaagc raggctgttc acacggcaca c 41

<210> 3465

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3465

ctctttactt aagtacagtg kgaggaacag cggcatcagg a 41

<210> 3466

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3466

gttagaaatt cagcaacttg sgcccagctc agacctactg a 41

<210> 3467

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3467

catacatagg aaatgacaaa ygtttatgga tggatagtct a 41

<210> 3468

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3468

tcatttaatt ctcaaaaaa katgaaaaa tgaacactca g 41

<210> 3469

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3469

aatggtaaaa gccacttggt yttgcagca tcgtgcatgt g 41

<210> 3470

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3470

actatcatgg gagataatga ytatggtgt ccatgattgg a 41

<210> 3471

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3471

caggacccag tgttctgagt yaccctgaat gtgagcacta t

41

<210> 3472

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3472

tatatgattt ttaggttttg yttatcagct tcttcgcttt t

41

<210> 3473

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3473

ccttttaaaa agtaagcagt rgataaataa attcagtga g

41

<210> 3474

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3474

ctggatttca tggtagccttt sattttccac atgaagggtg t

41

<210> 3475

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3475

tcttcccttt gcagagacac rccctgccag gcaggggagg a 41

<210> 3476

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3476

ggctccttgt tactgatttc ygtcttttct ctctgcctt t 41

<210> 3477

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3477

taatagccct catgctagaa rggagccgga gcctgtgtat a 41

<210> 3478

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3478

cctcatgcta gaaggagacc rgagcctgtg tataaggcca g 41

<210> 3479

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3479

ctttcctcaa tgtctcagct rtctaactgt gtgtgtaatc a 41

<210> 3480

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3480

ctgtgcaccc cactgtctgg stttaatgt caggctgttc t 41

<210> 3481

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3481

aacctatcta aacctcagtt ycctcatctg tgaaatggag a 41

<210> 3482

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3482

aactctgtac atttatcag yagcttatcc atccattgca a

41

<210> 3483

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3483

caggcatagg tgattcagag rtgaaaggtc aagtcctga a

41

<210> 3484

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3484

aaattaaaat tactctgact kggaatccat cggtcagtaa g

41

<210> 3485

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3485

tgaaggtaag gaaaatagtg ktatttgctt ggatccactg g

41

<210> 3486



<211> 41

<212> DNA

<213> Homo sapiens

<400> 3486

gaaggtaagg aaaatagtgt yatttgcttg gatccactgg c

41

<210> 3487

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3487

agcactggaa aagtcaaacc rtaactttga gaattaggtg a

41

<210> 3488

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3488

cttggtactc tttttcctt stcatgggtg atagccattt g

41

<210> 3489

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3489

tgatgtgggc atcccgagc yccctccctg cccatcctgg a 41

<210> 3490

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3490

cattggtttt atatgcttac mtttatgtgt tagttattaa a 41

<210> 3491

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3491

aataaatggt tgattttgag wttgagtttc atagtcaaaa a 41

<210> 3492

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3492

ataaatggtt gattttgagt ytgagtttca tagtcaaaaa a 41

<210> 3493

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3493

agatgaaaaa ttatgtagat rataatgaat gatacggttc t 41

<210> 3494

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3494

tgtagatgat aatgaatgat roggttctaa aaagacaggt t 41

<210> 3495

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3495

tacagccaca cttaaatgg wccattatg aaatacatat t 41

<210> 3496

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3496

taggtgagaa aagaagtggc ytgattttg ctgcaaagac t 41

<210> 3497

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3497

acaatataat ttgcttggtt yttaagagta taatttagtg a 41

<210> 3498

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3498

tgttttttaa gagtataatt yagtgatttt tggtaaattg a 41

<210> 3499

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3499

tttacattgc tacataaaat ycccctatgt acatgtacct a 41

<210> 3500

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3500

gatctcctct cctgtctctt wcatttttgc agtagcaatg t

41

<210> 3501

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3501

tggttgtaag aactgatttg rtggtatag ctgtgagggc c

41

<210> 3502

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3502

gtgttgctca cactcaaaat ktctgggcct tctcatttgg t

41

<210> 3503

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3503

aatatatacc ttatggcttt yccacacgca ttgacttcag g

41

<210> 3504

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3504

ttatactgac ttcaatagag stttcagaca aaaagttgtt t 41

<210> 3505

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3505

ttcacaattg taaacaccac yacactgaac agcatcatcc c 41

<210> 3506

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3506

aacaaaaatg tgggtgtctc yaggcacggg aaacttggtt c 41

<210> 3507

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3507

aggagccac tgtaacaata ytgggcagcc tttttttt t 41

<210> 3508

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3508

ttccagaatt tgaatattaa ygctaaaggt gtaagacttc a 41

<210> 3509

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3509

aactatatttg aagaaaacac racattttaa tacagattga a 41

<210> 3510

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3510

tgacttaaatt atttagacat nggtgtgtag gcctgcattc c 41

<210> 3511

<211> 40

<212> DNA

<213> Homo sapiens

<400> 3511

tgacttaaat atttagacat ggtgtgtagg cctgcattcc

40

<210> 3512

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3512

ttctgatggg gttgttgctg ntgagaatca tgactgggtg g

41

<210> 3513

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3513

cattttctgt ctgaaccccc ncacccattc aggcagctgc t

41

<210> 3514

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3514

tccttacttc tccttttttt ncatttgctt cctccacca c

41

<210> 3515



<211> 41

<212> DNA

<213> Homo sapiens

<400> 3515

cttttcaggg aggagccaaa ncgctcattg tctgtgcttc t 41

<210> 3516

<211> 40

<212> DNA

<213> Homo sapiens

<400> 3516

cttttcaggg aggagccaaa cgctcattgt ctgtgcttct 40

<210> 3517

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3517

ttagcccat cctctccccc ngccaccctc ctattgagg c 41

<210> 3518

<211> 40

<212> DNA

<213> Homo sapiens

<400> 3518

tttagcccat cctctccccc gccaccctcc ttattgaggc 40

<210> 3519

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3519

gagtgcccttg ggtactctct ngatggggga ctccatgata a 41

<210> 3520

<211> 40

<212> DNA

<213> Homo sapiens

<400> 3520

gagtgcccttg ggtactctct gatgggggac tccatgataa 40

<210> 3521

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3521

gctgtatatt gtgaatgtcc ngttttcaaa agcaaagcca a 41

<210> 3522

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3522

tgccatcata agcagaaact mtctctctct tcttgggaagc t 41

<210> 3523

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3523

gtctagagtc ttccaagag wacacattct gagattgag g 41

<210> 3524

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3524

agcaccaccc cattgcaggg mtggaatgac agtaatgggc c 41

<210> 3525

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3525

tgcccttccc aggaagatgt rtttctctgt cctcagccac a 41

<210> 3526

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3526

ctgtcctcag ccacatgaaa rtcttttgcc taccgtgcct g

41

<210> 3527

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3527

agctcacgat caagtcacag yttaactgga cacattattt t

41

<210> 3528

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3528

gcttaacaac cagcataaaa ragagcagca tgggacacgc t

41

<210> 3529

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3529

caggactgta gctgctggcc yaaaatgagc ccattcctgt g

41

<210> 3530

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3530

ccctctcaat ctggcctttc sctggcatgg gtgggcgact c

41

<210> 3531

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3531

gtccccaggg agatggagcc rctcgggctg agggccttgg c

41

<210> 3532

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3532

ttctgtctgg cagcctccc ratggctccc cacctgctac c

41

<210> 3533

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3533

ctccctgggg tatgcctgta sgcagttaag cgtcaaggac a 41

<210> 3534

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3534

atgccgctct ggggagggga mgctgagcat gattttggaa g 41

<210> 3535

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3535

ctgagcatga ttttgaagc yggcagaaga ggctatttg a 41

<210> 3536

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3536

tgcagcaacc gccccgcc yccgcaaaa acaaacacac t 41

<210> 3537

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3537

tttaccctg gaacaggcag rccaagctgg cyggcccct c 41

<210> 3538

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3538

aacaggcagr ccaagctggc yggcccctc cctgatacac a 41

<210> 3539

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3539

gtgtgtggct gggttcttag saagcaccat gggtccaagt t 41

<210> 3540

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3540

gggagatgaa cgtaagtgga rggcaggcct acaaggttgc a

41

<210> 3541

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3541

ccactggatc tgcttttggga rtcaagagtc ctttaagctcc a

41

<210> 3542

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3542

gatttttgtt ggctttgcaa wggatcacag tcatttattc a

41

<210> 3543

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3543

tctgagcctc tttccttaac ygcagagtga gtggytacag a

41

<210> 3544



41

<213> Homo sapiens

41

<213> Homo sapiens

41

<213> Homo sapiens

<400> 3547

tggtgagatc cctaccatgc rggggaggaa gttgcacacc c 41

<210> 3548

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3548

agcatggagc actgagtgtt yttgtggctt tgctgagccc c 41

<210> 3549

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3549

tgcttgggtg gagtgaatca ytgtaggaga aaaactcagt t 41

<210> 3550

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3550

tgaagtcagg ttacaaagt saagtttact tcttgggaga a 41

<210> 3551

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3551

tgaaaaccaa tgaccctct yccaagaaa atggccacat a

41

<210> 3552

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3552

ccttggggga gctcagtatg rttctccag gagaagcctg c

41

<210> 3553

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3553

gaaagtggg ttcatgtt ygcactcaca ttatgagtga a

41

<210> 3554

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3554

ctagacattc tcacagagcc ragggcagca aggcggggct c

41

<210> 3555

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3555

ttcacctctc tccatggacc rgtctcccct gctcctcaat g 41

<210> 3556

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3556

caaattcctg ggaacaaatc rggttgaccc agckttattc t 41

<210> 3557

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3557

acaaatcrgg ttgaccacgc kttattctcc ctgtcccatc a 41

<210> 3558

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3558

ggctgtcaga gcctacctgc ktgaatgggt ggaaggrcag g

41

<210> 3559

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3559

ctgcktgaat ggggtggaagg rcaggtctca gagaattggg t

41

<210> 3560

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3560

agacacacag agcatgggac ygagaggcga gcagaccctg c

41

<210> 3561

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3561

gagcagaccc tgccaaaact rggagactga atagatcgct c

41

<210> 3562

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3562

ccccagagc cacagcagcc stgtctctg ggtggtctg t

41

<210> 3563

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3563

agcataataa aagcaggagc yatagcccc aactctcaag a

41

<210> 3564

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3564

agagaagcca ctgtgccact sttggtcga acttcaagac c

41

<210> 3565

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3565

aatcacttgc cccaaggtca ycttaactgt taggtgttct t

41

<210> 3566

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3566

acctctaggg gctcccagag rccccaagaa cagaaccttc c 41

<210> 3567

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3567

cacccttgca gacctcagac rggctctggg ggcttgcttt c 41

<210> 3568

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3568

ccagaggaga aagctctgcc rtagycggcc tcagttaacc a 41

<210> 3569

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3569

aggagaaagc tctgccrtag ycggcctcag ttaaccacgg a

41

<210> 3570

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3570

gcaggcatta aaatgggact ktcctttat tgctcctggg c

41

<210> 3571

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3571

ttaaagcca atgagttct sattaacaaa gaaagaggga a

41

<210> 3572

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3572

ggaaaatctc agtaaaccac ygtgacggca tctaccact t

41

<210> 3573



<211> 41

<212> DNA

<213> Homo sapiens

<400> 3573

cttcgggtg gatattgcta ygtcaagtgt ctgggaaagc c 41

<210> 3574

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3574

aaacagcaat tagaatcact ytgaatatgt gatagtattt a 41

<210> 3575

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3575

gatgtgggaa agttagagaa sagccattg tactaatgct c 41

<210> 3576

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3576

aggcttcttg actgtctaga yagcaagtct aatcatttgt g 41

<210> 3577

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3577

gtaaacacgg ctgtgggatg mttttacaaa cacaatatcg t 41

<210> 3578

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3578

tgatgagctt gttattgggtg rggtacagcc tattaattta g 41

<210> 3579

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3579

tcgtgtctct gtcttgatct ytgtctggtt ttaggccaac t 41

<210> 3580

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3580

aacttttgaa gaactggaac rygttaggaa gttggtcaaa g 41

<210> 3581

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3581

acttttgaag aactggaacr ygttaggaag ttggtcaaag c 41

<210> 3582

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3582

atcatgtaat gtactttaga stcagatata taaatatttg t 41

<210> 3583

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3583

gacttcccaa cttaccttag yggagctgta gtcacataga a 41

<210> 3584

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3584

acgctcataa atgcttctct rggctgtaaa ggttgaattt t

41

<210> 3585

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3585

gtagacgca ggcattacct ytggtgttg cccagtggtg a

41

<210> 3586

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3586

gggatgtttg cccacatcca ytggtatttc taaaaggaa c

41

<210> 3587

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3587

cagctgcctg cgctggagag rgctcaaacc tcttcgcca g

41

<210> 3588

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3588

cccaaataat ttgtttttc rtttaggaa ttaaattca g

41

<210> 3589

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3589

aagaaacaaa catttattga saacttttg tggtgacct g

41

<210> 3590

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3590

tggtatttct taaagaaata ycaattccat ttccttttaa c

41

<210> 3591

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3591

aagatcatta ttaatatctc rtcagcgtgg tgcacttaa g 41

<210> 3592

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3592

tcaccctgtg gtcgggaggt rtgagtgagc tatccaagcc c 41

<210> 3593

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3593

ttgggtttca gtgtcagcat rtgctgtct actcagatcc c 41

<210> 3594

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3594

ggagctgagc cccctgtcct yatctagggt tcccttggtc t 41

<210> 3595

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3595

gagtccttta aaacacaaat sttaatgttt gaaatcaact c 41

<210> 3596

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3596

gggactcccc tagagctgaa rtactctccc atctgtttgt t 41

<210> 3597

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3597

ggaagatgaa gaacctaaagc ygcttcaga aattcatgag g 41

<210> 3598

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3598

acagattatt ccattgtatg matgaactat gtaagccatc c

41

<210> 3599

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3599

ctggctgccg ctggggtttc ytatgtccat ccacggggag g

41

<210> 3600

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3600

tatcaaatac aactcagacg kcagtctcct ggcccccttg a

41

<210> 3601

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3601

cctgctttcc aaacccttat yttgattctt ggtaacatga a

41

<210> 3602



<211> 41

<212> DNA

<213> Homo sapiens

<400> 3602

tttaaagaac agtgagtcac rtgacttgct ctttgaaatg c 41

<210> 3603

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3603

gacatgccat cagaccactg ygagtgttca ggcagcctac c 41

<210> 3604

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3604

ctccttccac acttgtgtgc rgggacattc actacctct a 41

<210> 3605

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3605

gctgtcaata aggacaaaa yagactaatt tcaaattcct c 41

<210> 3606

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3606

agctgctagg aataaaaagg ragacaaaac ratccacaag c 41

<210> 3607

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3607

aataaaaagg ragacaaaac ratccacaag ctagagatgg t 41

<210> 3608

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3608

aatcacagct catctgctgc rcatagga tcccaaaaga a 41

<210> 3609

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3609

aatgtaacag ccaaagtcct rgaaaaaggc aagccagttc c 41

<210> 3610

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3610

ctaactgtga attatcatct ktgatcactg cccttgaga t 41

<210> 3611

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3611

tctccccaac atttatgtgg maagtaagtt tacatttggt t 41

<210> 3612

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3612

taaatttgaa tgagtaattc rtccatctcg gcctcagttt c 41

<210> 3613

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3613

tggtgcaggc tggagaacct kcctatgaat tgtacagggc t 41

<210> 3614

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3614

aaaaccccat gaagtgggtca rggcaggcat cattatctcc a 41

<210> 3615

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3615

tagtagagta tgtgttggtc ragcagagcc aggggcaagc a 41

<210> 3616

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3616

tccttgggca agttaatctt ratgaagaga ctgggtgttc t 41

<210> 3617

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3617

cagagtcaga ctctggaaag kmggggggat aagaacacag c 41

<210> 3618

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3618

agagtcagac tctggaaagk mggggggata agaacacagc c 41

<210> 3619

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3619

gtattttcat gttaaattatc mratacacag ctgctatgga a 41

<210> 3620

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3620

tattttcatg taaattatcm ratacacagc tgctatggaa a

41

<210> 3621

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3621

ctagacaaaag gggmagctcc ygcccactag aaacttcag g

41

<210> 3622

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3622

gacactgtac agccagccca mtctgaccc cttttctca t

41

<210> 3623

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3623

ggaaataaaa ctgacatctt raggctacat gaactaacca a

41

<210> 3624

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3624

attggttcc cagttttatg kagggtcatc atccctgtgt t 41

<210> 3625

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3625

cctcttcccc tccttgctct maccctgtct cagttctcag t 41

<210> 3626

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3626

gttctcagtc cggtttcttc rtatcttgca gatttatccr g 41

<210> 3627

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3627

crtatcttgc agatttatcc rggcacctcc agcccagcag t 41

<210> 3628

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3628

ttttagcct attcctataa raatgcacca ttgcttcsca t 41

<210> 3629

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3629

taaraatgca ccattgcttc scattacctc cctccacaca t 41

<210> 3630

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3630

acctccctcc acacattttt rcaaaaygtt tcaggaggtt t 41

<210> 3631



<211> 41

<212> DNA

<213> Homo sapiens

<400> 3631

ctccacacat ttttcaaaa ygtttcaggg agtttactga g 41

<210> 3632

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3632

ttaaacagac tgggtccccta ygggcaggac agagaggatg a 41

<210> 3633

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3633

gtaggtgct gctgacatct rtccagcatc tgcttgactg g 41

<210> 3634

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3634

ggcaggacga gtcctgagca ygcttactg gctcagacag g

41

<210> 3635

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3635

actgagctgg acgctagaaa kaaactatag gcttaagaca c

41

<210> 3636

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3636

tagagaagtt tacttccatc rggacacatg catcttttct a

41

<210> 3637

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3637

ttgaaggata ctcagtaatt rettttttc ttgcagtatt t

41

<210> 3638

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3638

gtgtttgggtt cacacagctc yggagaaaaa caagtcaygg c 41

<210> 3639

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3639

ctcyggagaa aaacaagtca yggcacagcc ttgacttggg a 41

<210> 3640

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3640

cccaagtctc tggatggggc rtctgatcag gatgcatgca g 41

<210> 3641

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3641

atgcatgcag agcctggctg rgatgaggga gggctgctac c 41

<210> 3642

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3642

accacttatc tcaacagatc sgggacctgt ggcctattta c

41

<210> 3643

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3643

aagtcactaa gctggttggt rggaggaaca gcacataacy c

41

<210> 3644

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3644

trggaggaac agcacataac ycaccttatc tatgctgagg t

41

<210> 3645

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3645

ggacactgca tagatatcta yagaaatagc agcatgtcag g

41

<210> 3646

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3646

acactctctg gtggaccatc mctcatccaa gagagggtaa c

41

<210> 3647

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3647

tctcgctctt ctcttacctc yaggtgttg taaatttgc t

41

<210> 3648

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3648

agagagcccc acccacacca yggtcctac caagtcccca c

41

<210> 3649

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3649

gtaaattca gttgaatcag natttttcag tctggttcct g 41

<210> 3650

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3650

gaggggcggg gactataggc ncagcctaata tcaaggatga g 41

<210> 3651

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3651

ttgttggtt tgcaawggat nttattcact cattcattca c 41

<210> 3652

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3652

cctgtccatc agactcttct nacctctccc cgaggagccc a 41

<210> 3653

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3653

cctgggtgac agagcgagat ntagcatgag atattattac t 41

<210> 3654

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3654

cacaaagcat ctgacacccc natccagccc tggctaactt t 41

<210> 3655

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3655

cactaaaaac aaaaatttac ncctgaaaga aattgcaggc a 41

<210> 3656

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3656

ttcatgacag atcagatggt ncttttatgg atttacaag a

41

<210> 3657

<211> 40

<212> DNA

<213> Homo sapiens

<400> 3657

ttcatgacag atcagatggt cttttatgga ttacaaaga

40

<210> 3658

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3658

tttccttctt caaaccccc nagactagga gaaggtctgt c

41

<210> 3659

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3659

gggacggaca gaaaaagacc nagtttctgt tgagccaaag a

41

<210> 3660



<211> 41

<212> DNA

<213> Homo sapiens

<400> 3660

tatTTTTca attaaataaa ngagTTTT gtttctaaaa g

41

<210> 3661

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3661

gggccgagta tgcacactga ntgtgggaaa gttagagaas a

41

<210> 3662

<211> 40

<212> DNA

<213> Homo sapiens

<400> 3662

gggccgagta tgcacactga tgtgggaaag ttagagaasa

40

<210> 3663

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3663

atcttcccca cctttcacta nggtcttcta tggggtaaag g 41

<210> 3664

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3664

gtaccctgga cctcccagaa ngagagagat gtgccttct g 41

<210> 3665

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3665

ataggggcag aaaagacaca nccaaaagtt ctcttcact t 41

<210> 3666

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3666

catgatcaga gtaagggggg nttggaggat ggggagggga g 41

<210> 3667

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3667

ggagaggaaa tgatgtagt ncctcctgta aataggccca g 41

<210> 3668

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3668

tgctcttttg tgggtaatgg ncctcttcca ggagaagaaa a 41

<210> 3669

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3669

cgggggtggag ggttgggagg nctcattgt cattatagat g 41

<210> 3670

<211> 40

<212> DNA

<213> Homo sapiens

<400> 3670

cgggggtggag ggttgggagg ctcattgtc attatagatg 40

<210> 3671

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3671

tgctgcctc atctctctc naaactagtt ctgtattct c

41

<210> 3672

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3672

tataacctga ctttttttc nggattgctt ttttaacat a

41

<210> 3673

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3673

gctgaattag ttcccttggg nagttaactc ctgattttg c

41

<210> 3674

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3674

gataatcaat gctgtaaggg ntggcattag agatccagac c

41

<210> 3675

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3675

taaaaccgtc ttgtttgtt nttacatggt ttttagggcc c

41

<210> 3676

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3676

taagcagcta tcacttaaca ntacaaaacc agagattatc a

41

<210> 3677

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3677

ccttgaccaa agcctggggg ncagccattc cccarccct c

41

<210> 3678

<211> 40

<212> DNA

<213> Homo sapiens

<400> 3678

ccttgaccaa agcctggggg cagccattcc ccarccctc 40

<210> 3679

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3679

ataaaaagag ggggaaaaaa ngaaggcagt cgctgcaggg c 41

<210> 3680

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3680

gtggaccct gagactgact nttccagatc ttgttaggt t 41

<210> 3681

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3681

agactctgga aagkmggggg nataagaaca cagccccagc a 41

<210> 3682

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3682

gggccccacc tgctgaagag nggggggggtg gggtttgcc c 41

<210> 3683

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3683

ttttctcaa taatacaagt ngaggatcgg gttaaaatag g 41

<210> 3684

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3684

tgtagcctat tctataara ntgcaccatt gcttscatt a 41

<210> 3685

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3685

tttaattggc ccagccatgc ntttgggtggc tttgtcatt g

41

<210> 3686

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3686

catcctgctg aaggagaaag ncaccaatgg cccaagccct a

41

<210> 3687

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3687

agaatgttgg cccctcccc ytyctgcatc ctctgcagaa g

41

<210> 3688

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3688

aatgttggcc ccctccccyt yctgcatcct ctgcagaagc c

41

<210> 3689



<211> 41

<212> DNA

<213> Homo sapiens

<400> 3689

ggccagtgag tgacgggcag rtcgccc aaa tagcagcgtg c

41

<210> 3690

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3690

agagctgggg tcgtgcctcc rgctgggcaa ctgcctgtct c

41

<210> 3691

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3691

ctctgtcccg tcccctgccc rgtctcacca tggccttctg g

41

<210> 3692

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3692

ccccgggccca aggacctccc rttccaggca tccaggctgt c

41

<210> 3693

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3693

cagcttggtg gaggccgctg rggacctggc ccaggaggta c

41

<210> 3694

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3694

gccggagggt cacggaaact rttgaagaa gtaggagta g

41

<210> 3695

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3695

tgcggaggat cagaggcaca ygcaggagca aggcagaggg g

41

<210> 3696

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3696

accggacctt cgaggagctc rccctgctga gggatgtccg g 41

<210> 3697

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3697

ttttttttt ttttttttt wtaagagatg gagtctcact c 41

<210> 3698

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3698

gttgcccagg ctggactgca rtggygagat cttggctcac t 41

<210> 3699

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3699

cccaggctgg actgcartgg ygagatcttg gctcactgca a 41

<210> 3700

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3700

gagatcttgg ctactgcaa ytcgcgctc ctggattcaa g

41

<210> 3701

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3701

cgcacacgct gatgtggggc rcctggtggg cacgctgggc c

41

<210> 3702

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3702

gagtgacgga ggtgagggcc ygtccacctg cggggtctgt t

41

<210> 3703

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3703

cctgggcccc ggccacgtgc rcatcaaat ccgcatggac a

41

<210> 3704

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3704

caggctgcga actttgcacc kttacaccac tccacgtgac c

41

<210> 3705

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3705

cccttctgc tcagcgccgc rctgctggtt ctggtgctca a

41

<210> 3706

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3706

ggtgcgctgg aggggtgacag rcaggggcgg cccacgtgg g

41

<210> 3707

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3707

ggggcggccc cacgtgggtg mgcgccccc ggccaatcca g 41

<210> 3708

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3708

cgttcctct cacagctggg rgacatcctc ccctacagcc a 41

<210> 3709

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3709

cgagggcgcg cagtggcaca mcgtgggcac ccggcctacg g 41

<210> 3710

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3710

ggcggggctc cgggccgggt sgcacctgct ttgcgggagg c 41

<210> 3711

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3711

ctggacccaa agggtgaggc mctacgaggc ttaatagctg g 41

<210> 3712

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3712

tccgcagct ttataggcc ycgcccagc aggtcccgga t 41

<210> 3713

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3713

caccccatct ctgcagtgt rgtagaagag gcaccgcccg g 41

<210> 3714

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3714

cccggcctga gtcctggcgt mtccgttcgc agcctggaga a

41

<210> 3715

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3715

cgagacagta agagttgggg rtagacagag gttcccctgg a

41

<210> 3716

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3716

ctgctgggag accgtgtggc ygtggtggca ggtggccgct t

41

<210> 3717

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3717

gggtggggcg tgagccgggg ytcctgaag caccctttg t

41

<210> 3718



<211> 41

<212> DNA

<213> Homo sapiens

<400> 3718

gggatctccg acaccagcct sgaggaggtg tgaggcctgg g 41

<210> 3719

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3719

ggagctctgg tggctcagat rtccctggg aaggcctggg g 41

<210> 3720

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3720

gctggcctag acgtaaccct reggctcaag atgcgcgccac a 41

<210> 3721

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3721

cccagcctgc cagtgtagcc rgcccgggtgc ccggcgcctg c 41

<210> 3722

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3722

ccccctggga gctctcccgg mccccccggc cctcagctcc c 41

<210> 3723

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3723

caaggagcag ctgtctgagg stgcactgtg agtccctcca c 41

<210> 3724

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3724

ccactgcttg ccactgccct rtctggcccc ttgtaggcag g 41

<210> 3725

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3725

cagtactttg ggaggccgag rcaggaggac tgcttggtggc c 41

<210> 3726

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3726

ggtgagccgg atcttgaaac rggtcttcct tatcttcccc c 41

<210> 3727

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3727

ggcccactca cctttctgaa rgacctgcac tctcccaggt a 41

<210> 3728

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3728

ctctacctcc cacacgcgga scaggccctg agacaccct g 41

<210> 3729

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3729

ctgagccccc ggcgccccca yccccagcgt ggcccgggaa c 41

<210> 3730

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3730

gtggcccgagg aaccagtg c ygcgcacctc agcatgggat a 41

<210> 3731

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3731

ctccttgact ctgccttctg yggccctgcc cacttgctcc t 41

<210> 3732

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3732

tggccgttcc cagtttgcag ycgtttcaact gcctcttcca t

41

<210> 3733

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3733

cacactatgg ccctgccccca yacycatsec rgctccaccc a

41

<210> 3734

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3734

actatggccc tgccccayac ycatsccrgc tccacccaca c

41

<210> 3735

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3735

tggccctgcc ccayacycat sccrgctcca cccacaccat g

41

<210> 3736

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3736

ccctgcccc yacyatscc rgctccaccc acaccatggc c 41

<210> 3737

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3737

actcatgctg gctccaccca yaccatggcc ccgccccata c 41

<210> 3738

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3738

tgccctgccc catgccatt rtgccctgc tccacactca a 41

<210> 3739

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3739

gaagcgctct gctcgcgctt rgccatcatg gtgaatgggc g 41

<210> 3740

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3740

ggcgcaggac caggaggcgt sagccggggg ctctgggtgg a 41

<210> 3741

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3741

ctgggtggat ttagaagaca yaatcaggtg tgcgttgag t 41

<210> 3742

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3742

agttagggga gggcctggtt rgtgggcggg gccataggaa a 41

<210> 3743

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3743

tggcggccga gttccctggg kcgagctgc gcgaggcaca t

41

<210> 3744

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3744

ctgcgcgagg cacatggagg ycgctgcgc ttccagctgc c

41

<210> 3745

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3745

acggcgccgg ggtcgggctg sgggaggcag gctggggggcc a

41

<210> 3746

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3746

caagctgagt gtgcacatac rggccaagtg gcgattcata g

41

<210> 3747



<211> 41

<212> DNA

<213> Homo sapiens

<400> 3747

cttacaggag cccggtgtcc yggagcacag gccagggccg g

41

<210> 3748

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3748

cagcaggag acttggggag rgggagaga gttcacactg c

41

<210> 3749

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3749

agcagggaga cttggggagr rgggagagag ttcacactgc g

41

<210> 3750

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3750

cctcgacctg acccacttca yggggctgca gggcgggtga t 41

<210> 3751

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3751

cgtgaactac cacgtcctgc naagagatgg agtctcactc t 41

<210> 3752

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3752

ggggactctg agggctctggt nactctgagg gtctgggggc c 41

<210> 3753

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3753

ccccctggga gctctcccgg nggccctcag ctcccccttc c 41

<210> 3754

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3754

agaaagagaa agagagaaag ncagaaatgt gctttgggtg a 41

<210> 3755

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3755

ctggtaatta atattagata rataaaaaca ttgagttaga a 41

<210> 3756

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3756

aacattatgt tgtttaaac rtaactgagt gtagaataa g 41

<210> 3757

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3757

ttgccatag tataataaag wattcatgtt ttgctagcc t 41

<210> 3758

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3758

agactggagt ttgcatgcta yctaagactg tagctgattc c 41

<210> 3759

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3759

gaggagatca tcctcttggc yaatgtctat taacttcgcc a 41

<210> 3760

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3760

cagaaacttt tgccctctct rtaggctagc tcactgtgaa a 41

<210> 3761

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3761

agctctctta aaagtatcca ygctgaattt tctgcacctt a

41

<210> 3762

<211> 39

<212> DNA

<213> Homo sapiens

<400> 3762

tcgttaacag caatgataat ytagcccatc cttatccya

39

<210> 3763

<211> 39

<212> DNA

<213> Homo sapiens

<400> 3763

tytagcccat cttatccya gaaacaacag gctcataag

39

<210> 3764

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3764

tccatgtgtt acaaactgcc ytggaaga gaaaaagaga a

41

<210> 3765

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3765

cataatatat atacatatgc rcacacacac acatatacac a 41

<210> 3766

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3766

agtagttcat gttggaacaa yatgcttgag aaatgcagaa a 41

<210> 3767

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3767

ttgataacag gcacagggca ycacaaataa atgatggaac a 41

<210> 3768

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3768

cattggagta ttaggctacg ytttttgtt gtttgcagga t 41

<210> 3769

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3769

ttgtttgcag gatatttctt yttcttaaga acttcatatt a

41

<210> 3770

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3770

caattagttt tcttcaaaaa rgtagaaaag ttggaattgt a

41

<210> 3771

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3771

catataaaaa atcttgatta wactttggta tattttaaaa a

41

<210> 3772

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3772

gcaatgcctt ggaactatct yttaaacac attgacttc a

41

<210> 3773

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3773

ttgtgttcga tagatcagta rggtagtag ttaacaatga t

41

<210> 3774

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3774

aaagggaat ctgtggtgat ygcctgtca ttcattcata g

41

<210> 3775

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3775

ttccttctt tgtcaacttc ygtcaaatt cactcaagc t

41

<210> 3776



<211> 41

<212> DNA

<213> Homo sapiens

<400> 3776

tattctatat tctgtactct rttaatattc tataataata a

41

<210> 3777

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3777

atttaaatat ctatctctct rtatttacca ttcaaattt a

41

<210> 3778

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3778

gaggtagta tgccaaatta ragcatcact atctgtcata a

41

<210> 3779

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3779

ttccattggc ctattatgcc ygtgttatat ccagtgttag a 41

<210> 3780

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3780

aagagaccaa caaaattctt satcagcaga aaagcacagg a 41

<210> 3781

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3781

gcttactgaa tatataaatt sagaaaagcc atgccaagca a 41

<210> 3782

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3782

tgagagtggg gagtaactca raatgcctgg actccraggt c 41

<210> 3783

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3783

actcaraatg cctggactcc raggtcccag caggtcaatg a 41

<210> 3784

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3784

atgggtcttc gggattcagc rttctggtga gtcaaacgca g 41

<210> 3785

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3785

cctcccaagt agctgggact rcaggtgccg rccacatgc c 41

<210> 3786

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3786

agctgggact rcaggtgccg rccacatgc ctggataatt t 41

<210> 3787

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3787

gtgagttatt attgtgttgg ytttgcagct gttttgttt t

41

<210> 3788

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3788

atttcattat agttttcaaa kaatattgta aaacaaaaga a

41

<210> 3789

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3789

tattcctaatt tctaaagaat yctgccccaaa acttttacct t

41

<210> 3790

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3790

tggatgaata agtgaatgaa ragttatctt agartccatt t 41

<210> 3791

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3791

gaatgaarag ttatcttaga rtccatttca ggtcttcctt t 41

<210> 3792

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3792

agtgaattaa atatctttcc rtccacctat agcctaaaaa t 41

<210> 3793

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3793

taaagaaatc ttctctcacc rgcctggctg tgctctcct c 41

<210> 3794

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3794

tggaatccat aggctgtaat yatttacaaa ctcagcattg t 41

<210> 3795

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3795

acacatactt aaatatattt yctctgttct acttttggtt t 41

<210> 3796

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3796

agaggaaaat tatggtttgg raatgaaata aagcagaaat a 41

<210> 3797

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3797

tggccaaaga tctttccaac ytggtccagt gggtcacagg a 41

<210> 3798

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3798

ctgaagaaaa ttgtcacttt raagtatctt ttctttttt c

41

<210> 3799

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3799

aaaaaaaaa aaaaagagag rgagaaagaa aatatttgtt a

41

<210> 3800

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3800

tataaaagtt agaaaaaat kartatgttt tagaaataga t

41

<210> 3801

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3801

taaaagttag aaaaaaatka rtatgttta gaaatagatg t 41

<210> 3802

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3802

ctcaaaggag ttttagccat rtaataactt actattaatc t 41

<210> 3803

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3803

ggttcagtca ccatctataa yaataagctt tcagaaatgg c 41

<210> 3804

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3804

cttattgcaa aataagtgaa rttgagtttc taagagatca a 41

<210> 3805



<211> 41

<212> DNA

<213> Homo sapiens

<400> 3805

ttttgtttt gagacggagt mtcgatcatc tcggctcact g 41

<210> 3806

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3806

acatatcatc tcattcaaat rcacatttta tgggtgacaac a 41

<210> 3807

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3807

gaatcatcag gaaagtgtta ygcaaattct gattagtact t 41

<210> 3808

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3808

atttaaagaa aatttgtaga ygttttaggt ggaatgaaga a 41

<210> 3809

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3809

tgtcaggttt ttctttttt wttctttatg ttagaaattg g 41

<210> 3810

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3810

gctgtaaact cgttttgtga mttaggtacc ccatgattct a 41

<210> 3811

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3811

cacgttatac ctatagtaac rcggaagast ctaatcatga g 41

<210> 3812

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3812

acctatagta acrcggaaga stctaatcat gagatsctta g

41

<210> 3813

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3813

gaagastcta atcatgagat scctagcaga gccaatctct a

41

<210> 3814

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3814

gaagaagcac aggagagagg yagaatcttg acatccaaag g

41

<210> 3815

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3815

aaaatctatt ttgaaagaca yttggaacta aaaaaatctt t

41

<210> 3816

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3816

ttgtttaaag taaaataaaa ysaacaaaac attttcaaa g 41

<210> 3817

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3817

tggttaaagt aaaataaaay saacaaaaca ttttcaaag a 41

<210> 3818

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3818

actgtggtgg ggtgggggga kgggggaggg atagcattgg g 41

<210> 3819

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3819

cctgcacaat gtgcacatgt rccctaaaac ctaaagtata a

41

<210> 3820

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3820

cccagccrga gtgcagtggc rggatcatag ctactgtaa c

41

<210> 3821

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3821

ctcctagata tagacaaaaa mcaaggtgca caatggccat g

41

<210> 3822

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3822

cctgattaat atatgggaag raagggtgga gggtagtggg a

41

<210> 3823

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3823

aataatttc agttctgtac ractgtgaa acttcttta t 41

<210> 3824

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3824

gtgtctcca aaccacatca kttcatctt ttgtattac a 41

<210> 3825

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3825

cctggatatt atcagactta raatggagag gaaaagtcaa t 41

<210> 3826

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3826

caaaaattag atacaagggg stgaaattga cttaattgt a 41

<210> 3827

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3827

ctctaaatgc tgaccaggt sacactgggt agattacaa c 41

<210> 3828

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3828

ctctcacta ggtgtgaga ygctgtgtt aaatttatg t 41

<210> 3829

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3829

taacagcatc atcctgwtgt rttattttc atagacagaa a 41

<210> 3830

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3830

tttgcattga tgggtgtaaa rcctaagtca aaactcagtt a

41

<210> 3831

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3831

atattatttt actgtcttag scgttatatt aagaaactga c

41

<210> 3832

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3832

gcggtggaca tagaaagccc rgaagcttct tgatgtgctt a

41

<210> 3833

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3833

ttttgctttt gtgtgtgagt ngtttcagag gttttgtctt t

41

<210> 3834



<211> 41

<212> DNA

<213> Homo sapiens

<400> 3834

taaagtataa taataaaacg ngaaattcct cctgtacaga g 41

<210> 3835

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3835

ctcctgcaaa taggtatgac ntcaactgag tacaaaaagc t 41

<210> 3836

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3836

gtactagagt gcactccttt ngcaacagga cggccaaagg a 41

<210> 3837

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3837

tcaatgcac tttttttt ngaaatggag tctcgctctg t 41

<210> 3838

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3838

gtatatggta tttttttt nagacctctt agaaagctag t 41

<210> 3839

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3839

attttttta aaggatatcca ntagtcattc tcaatttctt c 41

<210> 3840

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3840

ggatattctg ggtttttt nctacaaact caagttttt g 41

<210> 3841

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3841

gtggaataat ttttgactta ngcatttggt caaataaaat t 41

<210> 3842

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3842

tatgtcgagt aacatatgtc nctgaatgcc agcttgccagt t 41

<210> 3843

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3843

tgaataatag tcacatcat naattattat cattacaact a 41

<210> 3844

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3844

tcaggTTTT cTTTTtwt ncttatgtt agaaattgga c 41

<210> 3845

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3845

actccatctc aaaaaaaaaa ngagagaaaa aaattctgca t

41

<210> 3846

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3846

caatactttg caaaaaaaaaa ngatctttcc ctgatgat t

41

<210> 3847

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3847

atactgaatg gtttttttt nctcctttct catatgacct c

41

<210> 3848

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3848

atccttggac caaaaaaaaa nctttatctg tgctttgcgt g 41

<210> 3849

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3849

gctttggagc catagtcatg yactcaaaat ttattttatc t 41

<210> 3850

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3850

tactctttac ctgtgaagag yagaacatga agaaatctac t 41

<210> 3851

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3851

cttgctggag gaagggtgct mgaaaatata ccaaacc aa g 41

<210> 3852

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3852

gaaataatat tcaagttctg maataatatc atgacctata g 41

<210> 3853

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3853

gatatgaatc agaattcatc ygtgtctcaa gaaaaggta t 41

<210> 3854

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3854

tgtctcaaga aaaggatcatg ygataaatta agttctgcta g 41

<210> 3855

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3855

aattaattta tcatcatctg rtcaccattt cacacaactc a 41

<210> 3856

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3856

cataagttga aatgtcccca rtgattcagc tgatgcgcgt t 41

<210> 3857

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3857

gctctctggc ttcgacgggg nactagaggt tagtctcacc t 41

<210> 3858

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3858

attaactatt caaaatactt yggaaatttg acatctcctt a 41

<210> 3859

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3859

ttagctctct tactgcttca yagtggaaga atcaaatact t

41

<210> 3860

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3860

aaacactctg aatattaaac ygctcctgga accacagctc a

41

<210> 3861

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3861

agttgtcctt gccctttgcc yttctagagg tgcaaaaaat a

41

<210> 3862

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3862

tgcaggaagt taggaaacta ytataaatcg gaagaaggga a

41

<210> 3863



<211> 41

<212> DNA

<213> Homo sapiens

<400> 3863

caaaccaacc tgatttataa rcataagaac attctactac t 41

<210> 3864

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3864

gtttggtggg ctagggctac rtaggagtg ggaacaagag a 41

<210> 3865

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3865

caacagtaaa gttacaatct raaaggaatg ctctctgtt a 41

<210> 3866

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3866

tttcctgag gaatgggtat yctctgtgtt ccttgagtc a 41

<210> 3867

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3867

ccacatcagg tttccccag rcacctggg acagttgaa a 41

<210> 3868

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3868

aaaaccctaa ccattgacac rtgtgaatgt ttcctgggg a 41

<210> 3869

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3869

cgtgcctcct ttctactggg rttgtctta attggccatt t 41

<210> 3870

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3870

ctgacctgtt ttggctgac rggtttagt tctccctc a 41

<210> 3871

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3871

tcttggtatt aaaagatcca ragagatagg aatatgtaat t 41

<210> 3872

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3872

tgcacttagg aaaaaaaca yatggaaatg tgtaaaatat a 41

<210> 3873

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3873

tgtaaaatat acttttttt waaaaaaaag gacacattta t 41

<210> 3874

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3874

aggacacatt tattcagcat yatgatcaga ctattacatt t 41

<210> 3875

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3875

caccttggtt tcatggtttg rcaaagtact ggcctgtacc a 41

<210> 3876

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3876

caccaacaaa tatctttttc rcagttgggt gggcatctgg t 41

<210> 3877

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3877

agactctgac ttagacatga yggcagggga aagagagact t 41

<210> 3878

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3878

taaaatacag atgtgttgta mtaagttctg caagcctttg g 41

<210> 3879

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3879

ggggaggtgt ccaggcacga ncatggagag ctggacttga t 41

<210> 3880

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3880

ggaggtgtcc aggcacgaac wtggagagct ggacttgata c 41

<210> 3881

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3881

tgcagccttg atcttctggg ytcaagcgat cctcctgcct c 41

<210> 3882

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3882

cttggataaa gtctgagagc staaatatgg tctccaagtg g 41

<210> 3883

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3883

gtccttcaat ttgtggtga rcttaaaaac aggactctaa a 41

<210> 3884

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3884

tattaagtgg tgtgttaaag rttgtgctat aatgaattgt a 41

<210> 3885

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3885

aagggtgga agagtgaag ngaggctatt tgctccaga c 41

<210> 3886

<211> 40

<212> DNA

<213> Homo sapiens

<400> 3886

aagggtgga agagtgaag gaggtattt gctccagac 40

<210> 3887

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3887

gcagcctctc tggcctatag kttgatttat aagggtg t 41

<210> 3888

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3888

ttgatttata aggggctggt ytcccagaag tgaagagaaa t 41

<210> 3889

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3889

aacaccctta tttatagat ycaatgactg agtcaagaat t 41

<210> 3890

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3890

cagcatctct acttatacca ygctctgctt taaggttctc t 41

<210> 3891

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3891

actcaaatag gtggtaggag yagagacaat tcaatacaga c 41

<210> 3892



<211> 41

<212> DNA

<213> Homo sapiens

<400> 3892

gagcagagac aattcaatac rgacagaagt cttagatgag a 41

<210> 3893

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3893

tagttttgcc atgtagaatt saaaaagtga tagatgggtg t 41

<210> 3894

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3894

gttaagcctg cttcaatcaa rttagttata ttctgttct a 41

<210> 3895

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3895

ttgacttagc gacactgtta rcatacttat ctttcctgtg t 41

<210> 3896

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3896

ccttgctgca cctgtgctgt mtaagtttgg cttattatag t 41

<210> 3897

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3897

agtagagaca ggctggcgat sacaccggac agagctaact g 41

<210> 3898

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3898

aacagaatca tgaaattaag ytgtaatga ttgaaggcc t 41

<210> 3899

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3899

aggataaatt gtttatgtcg yctgggtacc atcatggcca t 41

<210> 3900

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3900

ctgggtgact ccagatatca yagaaggagt tgtaaaattc t 41

<210> 3901

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3901

aatacacagg aagcttctaa rtaaagtaag gaagtcactc t 41

<210> 3902

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3902

ctaaagagtg aatggattca rtacgtccct tggaactcac c 41

<210> 3903

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3903

ctgaggttcc agcttatctc wtagagatgt ttacttagtc t 41

<210> 3904

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3904

tgtagaaga aaaaaagggtt yatattacaa gagggctctga c 41

<210> 3905

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3905

cccaagatat cttcataact stccatagtg cctagggtgc c 41

<210> 3906

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3906

tttaccaga ttcacctatt rttatcattt ttgctcccaa a

41

<210> 3907

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3907

tgctctatac agtttttgtt wtaagtttag taaattgatt a

41

<210> 3908

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3908

gcactttggg aggccaaggt rcataaatca cttgaggtca g

41

<210> 3909

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3909

tccagcttgg gtgacagagt ragacttcat ctcaaaaaa a

41

<210> 3910

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3910

tactcttggg gagcctatca scagggtggg tcagatatag c 41

<210> 3911

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3911

tgtttctttt ctgtccagat wctctcggca ttagtgaca a 41

<210> 3912

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3912

cagaccacac taaccctcag ytggaacctca ggatgtcagt g 41

<210> 3913

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3913

tgtggataag aaaatagcat rtggtagac catttgtgaa a 41

<210> 3914

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3914

cagtcgggtt ggaagcttgc yaccctttct tcacttcctc a 41

<210> 3915

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3915

tttatcttca cttatgtttt nctcagtaa gttatgctaa t 41

<210> 3916

<211> 40

<212> DNA

<213> Homo sapiens

<400> 3916

tttatcttca cttatgtttt ctcagttaag ttatgctaata 40

<210> 3917

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3917

cttgcaaatg ttgctcttcc rcaaaaaaaaaa aaggaaagga t

41

<210> 3918

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3918

acagtgggct gatgcataga ncctgtagca atccaccagc a

41

<210> 3919

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3919

agtatctcct aaactcttgc yatgcaggaa aaattatttt a

41

<210> 3920

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3920

gaaatatttt actgtattaa ygtctagaac ttaaataaa g

41

<210> 3921



<211> 41

<212> DNA

<213> Homo sapiens

<400> 3921

ctgagtcttc ctatacatct wttccattcc tcggatgctg t 41

<210> 3922

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3922

cttctcttac cttgaattct mggctctcga actttgactt t 41

<210> 3923

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3923

agaaaatgaa attgccctac ygagctaact ctgaaagcac a 41

<210> 3924

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3924

acggggcagg aggttctggg magaggacac ctggagcgct g

41

<210> 3925

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3925

agttaactcc cttgctgaca rgcgtgcttc ttgataggcc a

41

<210> 3926

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3926

gataggccaa aaccgtaact nctttccaaa acatagaccg c

41

<210> 3927

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3927

agttctccaa taaggcagat raagttaaga taaaatttgt a

41

<210> 3928

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3928

aattaatc atttattgct rtattgtgt cagtgtatc t 41

<210> 3929

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3929

tgcttcttt caagccagcc rgcttataa aaaagttagc t 41

<210> 3930

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3930

caggtttca gggctcatgt rgacctgaag aaaaatgaga g 41

<210> 3931

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3931

attctacttt ctcaacttct yttattacat tatctcatca t 41

<210> 3932

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3932

ccactctgaa acttccccct rcttttttc cttgtcagca g 41

<210> 3933

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3933

ttctctaag aaaaaaaaaa ncatattaat tgaccatagt t 41

<210> 3934

<211> 40

<212> DNA

<213> Homo sapiens

<400> 3934

ttctctaag aaaaaaaaaa catattaatt gaccatagtt 40

<210> 3935

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3935

aaaacaattt gtgtgtgtgc rtgtgcttca aggttaatgt t

41

<210> 3936

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3936

taaccactct gccctcagta ygaaacacag tgccgaaccc a

41

<210> 3937

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3937

atcctgtgag gtggggaagc rtatggctag cataaatata a

41

<210> 3938

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3938

tgttacctta ctgcctcatt stcattcttc ccacctgcta t

41

<210> 3939

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3939

ctccttccta accttagcaa sagtctggag atttacttat c 41

<210> 3940

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3940

ggcttaggcc taagggtga ygttggggcc agtaccctg a 41

<210> 3941

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3941

agctatgaaa acaagaccct rtccttctag aggtagcaaa a 41

<210> 3942

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3942

aaacggaaaa acctactcag mgcggggccat tgaccgcccg g 41

<210> 3943

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3943

tgctggctct ggggtagcc rtcgtggta ggctttcccc a 41

<210> 3944

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3944

ccccactta aaacattgt scctctgtc tccccattcc a 41

<210> 3945

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3945

cctgtccgg tactgccagc ygcagggtgc agagttgggg t 41

<210> 3946

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3946

agttcatagc attctcgctc rgccccctca ggcctgctgc t

41

<210> 3947

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3947

ggcaatgtgc ggactgtgcg wgccttcgcc atggagcaac g

41

<210> 3948

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3948

ttccgcagc tgcattgaca ycctgcgtg ccccgttct g

41

<210> 3949

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3949

cctcttggag gtccttctag ygctgcctat gtggagattc t

41

<210> 3950



<211> 41

<212> DNA

<213> Homo sapiens

<400> 3950

ttcctgcctg gtgcctcccc nggctgcctt tagcaagtgc t

41

<210> 3951

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3951

tcctgcctgg tgcctcccc rgctgcctt agcaagtgc t

41

<210> 3952

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3952

cagggccgag cagggagtcc rtgggtcagc tgggctcct t

41

<210> 3953

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3953

tcctccactg ccacaagggg nccttcttcc ctgggacaat c 41

<210> 3954

<211> 40

<212> DNA

<213> Homo sapiens

<400> 3954

tcctccactg ccacaagggg ccttcttcc tgggacaatc 40

<210> 3955

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3955

tgctctcggg agaccctggc ygtcttcaca tgcctcagc t 41

<210> 3956

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3956

atccaggtct agagaagcct rtagtggagg tgctgagctg c 41

<210> 3957

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3957

acagttgtgt cagggaagac sagaaccaca gccaaagggg a 41

<210> 3958

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3958

accacagcca aaggggacag wgtcgttgtg tggggacagg g 41

<210> 3959

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3959

gttgagcct tgggctctgt ragggggaca gagggaatca t 41

<210> 3960

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3960

cctatcccct ggctcacccc rggaccacaca gtcccatct t 41

<210> 3961

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3961

ccctctttca ggggtgtgat rcagtgcatt gatggagcag c

41

<210> 3962

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3962

tagaccgcag gagccgcgcc nttcctaacc tcgcctcggc c

41

<210> 3963

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3963

agggtgccag gccaggcacg sgttgggggg cgtctgggca c

41

<210> 3964

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3964

tgggccagc acgtggggcc yggaactacc tcaaaggctt c

41

<210> 3965

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3965

accagctcag cctgccagc rtgcacacgg caccaagctg g

41

<210> 3966

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3966

agatccaagg gatccagagg ytggaatgtg accctccgtg c

41

<210> 3967

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3967

gggaagccag atgcccacaa rgctctgtga cttcacttc a

41

<210> 3968

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3968

gccaaagtgtc aagatcgagc raggggaggg cctgacgagg g

41

<210> 3969

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3969

cagaatccag atgcccgtaa ygttgtaag aagcctgcac a

41

<210> 3970

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3970

ggccaggcgg ggaggggtac yggccagacc ggtgggcaaa a

41

<210> 3971

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3971

agagtcacag ggttgggtg mccccgggaa ggtggcatct a

41

<210> 3972

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3972

taccagccct gtgcttcag rgaccatgtg acctgtcaac t 41

<210> 3973

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3973

cccgaggtgc ctggcttcac rgcaggattg ccgtcctgca g 41

<210> 3974

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3974

aaagtggccc cgtggcttgt yccctgaagc cctaaagcac c 41

<210> 3975

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3975

ccacagacaa gccgggtagc mcacctcgca gctcaacaca c

41

<210> 3976

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3976

cctggttttg ggccctgttc rtgtggacgt acatttcact c

41

<210> 3977

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3977

ggtaccagga gtcgggtatc rgtgggacag gaacgcgtgt c

41

<210> 3978

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3978

gggccccagg agctctccca kactatcagc ctctggggt g

41

<210> 3979



<211> 41

<212> DNA

<213> Homo sapiens

<400> 3979

cccaggcctg cagcactgaa rgacgacctg ccatgtccca t

41

<210> 3980

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3980

tcgcgtctgc gcgctccgcc yggctgccc gcgtgagaaa g

41

<210> 3981

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3981

acaaggggcg gttgcgcccc kcagcgggcg gactcccgga g

41

<210> 3982

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3982

ccacttcct ccgccgggc kctccttc caccgcggg g

41

<210> 3983

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3983

actcgttgc agattttaca yttgtttct tgttgacaca c

41

<210> 3984

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3984

gcgtttatac tttttttt naaccaaaaa cacattattt g

41

<210> 3985

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3985

agggccgggg cccaggcttc ygtaggcatc agtatgatgg t

41

<210> 3986

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3986

caaattcaca actgtgcctt scacagaatg ggttgga aaa c

41

<210> 3987

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3987

ccccactcca cttgggtgag rgcaggtgga tggatggg t

41

<210> 3988

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3988

tacctcagg cactcagaca scctaccaa tcagaggctc a

41

<210> 3989

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3989

tcctttcct gtttttgtt kttttttt tcttgagtg g

41

<210> 3990

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3990

cattggtttt tagtgattc wgtgtgtgc atccatcac a 41

<210> 3991

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3991

tgtggttag agctttctct ngagacattt tgctaaggt t 41

<210> 3992

<211> 40

<212> DNA

<213> Homo sapiens

<400> 3992

tgtggttag agctttctct gagacattt tgctaaggtt 40

<210> 3993

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3993

agctgaagtg aattaagcac ratcaactca gtactcacac t

41

<210> 3994

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3994

agggggaaag tttaaaggta ngctttgta tgttttaag t

41

<210> 3995

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3995

agagggttc ccaagcacac yctgtgttg gggttattgc t

41

<210> 3996

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3996

aaatatagat gcaaaaaaaaa ntgagctgtg gatgcatgtt t

41

<210> 3997

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3997

aatctcagtt tttaggtcac ycaagccagt gggagtcaca t 41

<210> 3998

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3998

aaagacgttt taagggttt ngaaagaaaa gaaaactgta g 41

<210> 3999

<211> 41

<212> DNA

<213> Homo sapiens

<400> 3999

ggtttcccaa catctcatct rataaaaaaa ataatttgcc a 41

<210> 4000

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4000

aaagagaata ggtagtgga ytagtattcc tgtgcttaat g 41

<210> 4001

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4001

aagagatggg ctctagcccc ngtttgattt ggggcactta c

41

<210> 4002

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4002

gtttggctac ttgattaata raagaaagaa gagataataa t

41

<210> 4003

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4003

cctgcatcta ttctgaccta yactggggaa aacagtatgt g

41

<210> 4004

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4004

tattttgtag ttcaaaaagt ntgctgtcca ttgatattc a

41

<210> 4005

<211> 40

<212> DNA

<213> Homo sapiens

<400> 4005

tattttgtag ttcaaaaagt tgctgtccat ttgatattca

40

<210> 4006

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4006

agccacacgt ttcttattgc rtgggaagtt taaaaaatgg g

41

<210> 4007

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4007

agtgaacctg agattgagct rtactgaaat ctctagaaga g

41

<210> 4008



<211> 41

<212> DNA

<213> Homo sapiens

<400> 4008

aaagggtggt ctttaaatcc ytatgtttt ctcacaggt t

41

<210> 4009

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4009

tttctcatca ggttacaaga ygagaagaaa ggtgatggcg t

41

<210> 4010

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4010

acaatttata gtatttctca rtgccccaca cagtttatct a

41

<210> 4011

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4011

gtagatgagt agctaaaaac kaaagtcagc tcctgaaata a 41

<210> 4012

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4012

ggcacaatga cagatgtttt yattgactac gacgttgagt t 41

<210> 4013

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4013

gggaggtgac ccatgaattt yacttgagta tcatctccaa g 41

<210> 4014

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4014

agaagaggta acagtaagcc kcctgattta cagcacacat c 41

<210> 4015

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4015

atttgcaggt gtgtttgtag sgggcagttg agtagcttga a 41

<210> 4016

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4016

aaaggattca gcaggcatga rgaaagaaaa gctttgcaag a 41

<210> 4017

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4017

ccattggcta atagcaatga mctatgacat ggtctaactt a 41

<210> 4018

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4018

tcaatgatgt tacagtgaga mtctaatt gtattaaacc c 41

<210> 4019

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4019

ctaatattgt attaaaccca wgccacatgt taaatgaatc t

41

<210> 4020

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4020

gtgtccaagt ttacggacta ygagctgaag gcctatgcca a

41

<210> 4021

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4021

caccttggtc tgtggcctcc rgaggaagta ctgttcaag a

41

<210> 4022

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4022

taatcattcc aaaccacgga mtttatttca ttaagaacat g

41

<210> 4023

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4023

tcattccaaa ccacggactt watttcatta agaacatgat a

41

<210> 4024

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4024

tttacagatt ggaaaagcca ytgaagtatt gcaggtccag a

41

<210> 4025

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4025

agtgactgta attagtatca sttgtgcaca gagaaaaaat g

41

<210> 4026

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4026

tcgagaaggt tgttctttca ygaccttct gagtttcaga a 41

<210> 4027

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4027

gaattcatta ataaaaataa wcacataatg gagcgtgaca t 41

<210> 4028

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4028

gggccactct ttggcttggc ratagactgt ggccaatgaa a 41

<210> 4029

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4029

gctatttggg aggaacatct rggcattgatc aggtagcctt c 41

<210> 4030

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4030

gagtaatat cagtaaaaa ntaaagtggt attttaa a 41

<210> 4031

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4031

tgtttccagt aataggaat rgaggtgtct ttcttgaaa g 41

<210> 4032

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4032

gataaatgac aaggcaatta saacaatcag gaagcacagg t 41

<210> 4033

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4033

caaggcaatt acaacaatca rgaagcacag gttcttccca a

41

<210> 4034

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4034

cctcatcctt gccaatgtt ycttttactg gttttgatg g

41

<210> 4035

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4035

tctaatgac ctcaacatgg ycattaaacc aggggaaatg a

41

<210> 4036

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4036

atggcagtat attgatcaaa yagaaagggtg tagcatacat t

41

<210> 4037



<211> 41

<212> DNA

<213> Homo sapiens

<400> 4037

ttattgcct ctatttttc ntgccattg gtcaagtatg a 41

<210> 4038

<211> 40

<212> DNA

<213> Homo sapiens

<400> 4038

ttattgcct ctatttttc tgccattgg tcaagtatga 40

<210> 4039

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4039

catacatcc tgggagaaac yaagaggtca tagaaggaaa a 41

<210> 4040

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4040

cacaattata cacatttctt ytcgtatgat tcccaagtca t 41

<210> 4041

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4041

tattgtgtca aaaacaattc rttgtatatc tccattctaa g 41

<210> 4042

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4042

cagcctttgc attatatttt ngctgtgttg tctaacagga g 41

<210> 4043

<211> 40

<212> DNA

<213> Homo sapiens

<400> 4043

cagcctttgc attatatttt gctgtgttgt ctaacaggag 40

<210> 4044

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4044

gctgtgttgt ctaacaggag maaagagaca cggatttgct c 41

<210> 4045

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4045

tgagatagat atttaggacc rtgaccaatt tttattttgg t 41

<210> 4046

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4046

gtgaccaatt tttattttgg ytgaaaaatc ttatttgaag t 41

<210> 4047

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4047

tattgattag acaataaccc rtctggggaa gggatatttc t 41

<210> 4048

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4048

ccttttctaa tgtctgcaca rcctatttaa gaatattccc a 41

<210> 4049

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4049

aaagttagt gtttctatca ngctacttct gatggacttc t 41

<210> 4050

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4050

tttctctccc caattcatgg kttttgggtt agcttctcat c 41

<210> 4051

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4051

tccccaattc atgggtttt kgtagcttc tcattcttt g

41

<210> 4052

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4052

caattcatgg gtttttggtt nagcttctca tctcttggg g

41

<210> 4053

<211> 40

<212> DNA

<213> Homo sapiens

<400> 4053

caattcatgg gtttttggtt agcttctcat cttcttggg

40

<210> 4054

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4054

ggggacttct tttaaaaaa ntctgtgtt agtgttctc t

41

<210> 4055

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4055

tcagacttgg gtttcctat yttctctt gagaacaagt t 41

<210> 4056

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4056

tgtaaaata tctcattgta yatgctgacg gattttctt g 41

<210> 4057

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4057

ccttaagtct cctcctatca wgcacctgt tctcaccagc t 41

<210> 4058

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4058

ctctctcttc cttctcagc nctactattt cactgttggc t 41

<210> 4059

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4059

aatcccccata tctacctta kccatctcat ccatgaatct t 41

<210> 4060

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4060

atccccatat cctaccttag ycatctcatc catgaatctt g 41

<210> 4061

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4061

aatatgagtt ttctaggtat rtatctagca gtgtttcaag t 41

<210> 4062

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4062

atatgagttt tctaggtata yatctagcag tgtttcaagt c

41

<210> 4063

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4063

ctctgaaagt tagtgataca ycttatttgt gtttgaatca a

41

<210> 4064

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4064

atgtatgaga tcaagtcagg rtcaaatatt agacacccat a

41

<210> 4065

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4065

ggaccatcct gtggggcaat sgttccagaa aatgctggta t

41

<210> 4066



<211> 41

<212> DNA

<213> Homo sapiens

<400> 4066

ctcaccggta taaatacaac ygtagcaaag gttttctttt t 41

<210> 4067

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4067

tgcgtattcc ctcagttcag nttttattc aagccacagc a 41

<210> 4068

<211> 40

<212> DNA

<213> Homo sapiens

<400> 4068

tgcgtattcc ctcagttcag tttttattca agccacagca 40

<210> 4069

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4069

tggttaagtt aaaaaaaaaa ngagattcaa ctataattgc t 41

<210> 4070

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4070

caagattcaa tactgcccc naggggggtgg gtgaacaggg c 41

<210> 4071

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4071

ctgttcaatt tcctctcgca yagtgattca ttccacattc c 41

<210> 4072

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4072

taattaatat cttgtccttg sggggtaaag gagggatggt a 41

<210> 4073

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4073

ttggggggta aatgagggat rgtagcataa acacttctca a 41

<210> 4074

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4074

aaacaccaca gaatgacata raactaaagg cggcaggaat c 41

<210> 4075

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4075

cattcaccct tgggggaccc rggccaataa aaaaatcaca g 41

<210> 4076

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4076

gatgtgccct acctgaccct yggctcgggg cagacttggg g 41

<210> 4077

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4077

gggcaggagt ggactcaggg nttcctgggc caaatgggtt c 41

<210> 4078

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4078

tatggagggt ttctcttctt ytctgtgagt tttctctctg a 41

<210> 4079

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4079

taaaagccaa tcaaatcaac naaacaagcc acgcatttgc c 41

<210> 4080

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4080

cacctgtaat cccagcacct kgggaggcca aggcaagtgg a

41

<210> 4081

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4081

gtctttacta aaaatacaaa mattagctag gcatggtggc g

41

<210> 4082

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4082

ccactgcgct ccagcctggg ygacaagagt gaaactctgt c

41

<210> 4083

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4083

aggtccttaa actaccctgc rtccaagaa tcagtgcctg g

41

<210> 4084

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4084

agtcttttgt atgcaccact ngccattttt cctgcatgac c 41

<210> 4085

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4085

ttctatgtaa cagtaagaaa naggcagctgc caattaaaca a 41

<210> 4086

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4086

tgaattgtca ggttgatgtt mtccttggtg gcatggcggtt t 41

<210> 4087

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4087

tgtggattga tccaggagat saagcaatgt tgtcagtact c 41

<210> 4088

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4088

agccttgccct gccagttgga stcacttggg gaggccttaac a 41

<210> 4089

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4089

accccatctc tattgaaaag ntcaatataa aaaacattta c 41

<210> 4090

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4090

tggtgatggt gagtgatggg ytgatcccag ggctgcccga g 41

<210> 4091

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4091

tgctcattac aactattcct ycttggtcag gttggcaaatt t 41

<210> 4092

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4092

ctcattacaa ctattccttc nttggtcagg ttggcaaatt a 41

<210> 4093

<211> 40

<212> DNA

<213> Homo sapiens

<400> 4093

ctcattacaa ctattccttc ttggtcagg ttggcaaatta 40

<210> 4094

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4094

gccacctggg gagggcccaa rcgcgtctcc agggcctgtc a 41

<210> 4095



<211> 41

<212> DNA

<213> Homo sapiens

<400> 4095

aaagaaagaa aacacatttg wcttcttgac agagaactcg c

41

<210> 4096

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4096

ctagcacaga gggttccctg kgattgtaag ttacagcagc c

41

<210> 4097

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4097

ggaagttcta ctttcaggtg ygggtgatc cagggactct g

41

<210> 4098

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4098

ctctccagag aaaacaatct ktagaaggcc tgcattgaaa a 41

<210> 4099

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4099

aaccccaggc tcaaagaagc rtgggaaata atgcatactc c 41

<210> 4100

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4100

cacctcttta gtgtctgtgc ractgcacat ttgtctcttg g 41

<210> 4101

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4101

gattcagaat gattctctcc ragaaaacat cctttttgga t 41

<210> 4102

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4102

ccaagctagg cagtctcaca ntgtgcactc acgtggccgg g

41

<210> 4103

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4103

gcgtgaggtc tgtctctcta yccttcgctc caggtgagca a

41

<210> 4104

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4104

cttgccccca gataggttcc scacccccgc cttctttcc c

41

<210> 4105

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4105

gatgcaaatg ccgcccacca ycctggcacc tcgtgcgttc a

41

<210> 4106

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4106

cttacatcaa actggggcac ycccctctct caccaccac c 41

<210> 4107

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4107

gtggctgcgc tcagtgcga mcaggagaag tgaaggctga g 41

<210> 4108

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4108

gacgaacagg agaagtgaag sctgaggctt ataggagggt g 41

<210> 4109

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4109

gctggttccc agtgtcacac nggtgtgtgag gacaggctgc a

41

<210> 4110

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4110

ggtatcattc ttccttcctg rgtgatgtgg ctatttgtgt t

41

<210> 4111

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4111

gcggagtggg ggcagtagtc rcatcatca ctgagttatt g

41

<210> 4112

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4112

tcactgagtt attgtgaacc rggaagaga tatgatctgt g

41

<210> 4113

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4113

tattttgaat atcacttctt ntcaatgctt gggaatcacg g 41

<210> 4114

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4114

gagctccaga taccacctgc yccacaacca gacagcctgt t 41

<210> 4115

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4115

tggagagtga catggtgggg ntgtggtgca tatattcata t 41

<210> 4116

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4116

ttaaagatcg tctattttgg rcaagtgtta ataattctcc a 41

<210> 4117

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4117

gtggggctgg ggctggggct ngggtgcgtg catgtgctaa g 41

<210> 4118

<211> 40

<212> DNA

<213> Homo sapiens

<400> 4118

gtggggctgg ggctggggct ggggtgcgtgc atgtgctaag 40

<210> 4119

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4119

gttgtggcctt tgtctaatta yagaaatgga tccttagagt c 41

<210> 4120

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4120

aaccatgagg ctcaccatat ytcaaaccac gctgcacagc t

41

<210> 4121

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4121

ctcttgaaat tgggtgccagc nccctgcatt taccaaatat g

41

<210> 4122

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4122

tttttttt tttttttt yccctgcatt taccaaatat g

41

<210> 4123

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4123

ccaaggattt ttattttca rcaacaaagg aaatgatttt a

41

<210> 4124



<211> 41

<212> DNA

<213> Homo sapiens

<400> 4124

gagtcgggtca gccgctcccc rgtctattcc catttcaacg a

41

<210> 4125

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4125

tcttttttac tcaactgcagt rtgaggaaca aatcacattt a

41

<210> 4126

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4126

gaccaaacac tatctcctgg ncttccggtc aagtgtcggg c

41

<210> 4127

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4127

tggagaaaat cattttctcc ycttggcagt gtcccagggc c 41

<210> 4128

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4128

ctgatgctct tccaggacac raaaagaacc catctttgaa t 41

<210> 4129

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4129

ccatctttga atatcaatga naagtactgt tccggggaga a 41

<210> 4130

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4130

cattagaata ggtagtatca rccagccggg catggtggct c 41

<210> 4131

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4131

catattaata gaagagtctt ygtccagac gcagtcagg a 41

<210> 4132

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4132

gataagtctt agaactggca mctaatgata tggactagaa g 41

<210> 4133

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4133

atcaaagtgg ctttgatttt kgcataagaa tggtagctct t 41

<210> 4134

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4134

agtgtgtcga ttacaagcct sagccacctg cacagcctct g 41

<210> 4135

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4135

gtcatatccc acccccaaat mgaccaata ggtacaatga a 41

<210> 4136

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4136

aaaactggca ggagaatttc rctggagctg catgcaggac t 41

<210> 4137

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4137

agttatgaaa ccgatttttc ygggactggt tgttctagtc t 41

<210> 4138

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4138

aggttccag atgtgtccc yaggcattcc tggtagtagg a

41

<210> 4139

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4139

cttattcttt ggtcagttgg ytttctacca cctcttagct t

41

<210> 4140

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4140

gggtattgga aagttcttgc rgctgctgga ggctgcggtg t

41

<210> 4141

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4141

ggactagtgg aagaattaga sccttcctga ataaatagat c

41

<210> 4142

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4142

taccataatt tatgtgcct ratgacatg aatttcattg g 41

<210> 4143

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4143

gttaaggata tgtgaactca rgtgtgtcta taggataaat t 41

<210> 4144

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4144

ttaatgaggt taagcacatg kcatatgtt taaaagcctt t 41

<210> 4145

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4145

ggataaggc aagattttt waaaaaatta atgcttaat c 41

<210> 4146

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4146

acatccttct cccctcagtc ytcggttagt ggcagtattc t 41

<210> 4147

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4147

ggactcttac cagcttagtt kccgtgtttt ctaatctaaa a 41

<210> 4148

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4148

tggccaggaa ggagtacacc rttggagaaa cagtgaacct g 41

<210> 4149

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4149

aactttttaa gtcttaagac wggaggcct gtgtcctagg c

41

<210> 4150

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4150

ccctctcacc gcccatgcc rcttttcctc cttgtacca t

41

<210> 4151

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4151

catgagtttt ctgagcccca stttatctaa ctataaaatg a

41

<210> 4152

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4152

gtgcagggtc cccctgatgc yatagccagt tcctctttag a

41

<210> 4153



<211> 41

<212> DNA

<213> Homo sapiens

<400> 4153

atgagctgaa agcaaagggt ytcagcccct tcccctgata a 41

<210> 4154

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4154

ttccaggtga cacatttagt rcctaatttg ggaaatgtta a 41

<210> 4155

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4155

tgттаатсга гтсгаатсс мтгагаага аагагагага с 41

<210> 4156

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4156

catcctgatg cacagttatt yaaatttaag ctccattgt t 41

<210> 4157

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4157

atgtatggag tatttatgga rtaaagtatt ccatgctgta t 41

<210> 4158

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4158

caagcaatag gattgttttc ratattcttc atcatccttg c 41

<210> 4159

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4159

tatactgagg atctttctga yaggaggaa ttattatgtc c 41

<210> 4160

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4160

tggcagtaga gcagggtgag raggattatt ctgcagagga a 41

<210> 4161

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4161

ttagccaact actgtactag ractggggc actcaatgaa t 41

<210> 4162

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4162

atgggccaga cccaactcac kgattttta gtgtatctga g 41

<210> 4163

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4163

ctggctccat cttttacca yggacgtatt cettactctt c 41

<210> 4164

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4164

gggtccctaa agtttccttt sctctaactc aaaggaccta a 41

<210> 4165

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4165

cagattggcc cagcaaaggc magatccagt ttaacaacta c 41

<210> 4166

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4166

aacaactacc aagtgcggta ycgacctgag ctggatctgg t 41

<210> 4167

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4167

agagggatca cttgtgacat yggtagcatg gagaaggtag g

41

<210> 4168

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4168

ttccctagga tggacacgtc rttccagaa ctttgaaatg t

41

<210> 4169

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4169

gtgttaggtg atgcctggca yagaatttcc atccaggtct g

41

<210> 4170

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4170

gccaaaattt tacatcacgc raatgaaaac gaacaagggt a

41

<210> 4171

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4171

gtgaattttt attataagct ygttctcctt aaaactttat c 41

<210> 4172

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4172

tccttctgag cccaacaag yggctgctgag ttggcgtctg g 41

<210> 4173

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4173

ctggggcttc acctgtcctt naaccctgat caggctgaag c 41

<210> 4174

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4174

tatttgtaga tatatgccct ktgtgtgtgt acgcacacac g 41

<210> 4175

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4175

aaacttgggg caatggaggt nctgtaaaa ggcattttg g 41

<210> 4176

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4176

gcgcacttct ccttgatgct ygtgagctat acacacctcc t 41

<210> 4177

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4177

gcctgtagtc cccagacagg raaatggtct tgaaacctg g 41

<210> 4178

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4178

agtgaccatg aagtctgcca ygagggggcc tctgccacgt g

41

<210> 4179

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4179

ttgtattttt agtagagatg rggttttgcc attttggcag g

41

<210> 4180

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4180

tgtgcccagc cagcattctg sttttaatga ggccctctcc c

41

<210> 4181

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4181

ctcacctgac ctgcttgggg ycatgggaat ctgacaactg a

41

<210> 4182



<211> 41

<212> DNA

<213> Homo sapiens

<400> 4182

gaggctggtg gtgagagcgt satcgatagg gcgtgcagca g

41

<210> 4183

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4183

ctcattggac tctaccctga naccacctcc acgtgctca g

41

<210> 4184

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4184

ttctgttgc ccttcaatc yccctcattt tatttcatg c

41

<210> 4185

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4185

aacacttccc tgaggctggg ygtctatgct gcttaggaa t 41

<210> 4186

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4186

cctctgtctg ttcatccct stctaccct cccccccac t 41

<210> 4187

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4187

atgcaccagc caggcctgaa mgaatgagta agagttggag g 41

<210> 4188

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4188

ttttcttgag caagccaaca ngtttcttt ctgcaggta g 41

<210> 4189

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4189

aaccccctat gattagaact rtagtgctgt ttaggaagcc a 41

<210> 4190

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4190

aattcacagt taacaaagct ntcttgta taaattacac a 41

<210> 4191

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4191

attcatctgg gtcatactct ygagttacc ggctttcttg a 41

<210> 4192

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4192

ggagcggagc ccgcggccac ygccgcctga tcagcgcgac c 41

<210> 4193

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4193

ctttgaccag ctctttccc ngttccaat actttcactt c 41

<210> 4194

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4194

ggatggaaat ggtgagcaca raccttgga ttaaggacc g 41

<210> 4195

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4195

ctgttttcta cccactgggg ycagcaaac agccccttt a 41

<210> 4196

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4196

tgatgctcaa agcaatacaa stagaaaata taggaggctg g

41

<210> 4197

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4197

aagggggagt catactccag ygtgcatttt agtttgtgct t

41

<210> 4198

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4198

tttgtttgt tatttgcgtc ncctggaagg aagtgattgg c

41

<210> 4199

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4199

ccagggaact ggtggcacac sctgagtctg ctaggtgggc t

41

<210> 4200

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4200

ggctaaagac tcacaacctg wgggaagggg ccaggaaaga a

41

<210> 4201

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4201

cctgagggaa ggggccagga ragaaaggaa gccatggcct a

41

<210> 4202

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4202

gggtgttatt tgggacccca ygcccatcca ggccgacaga g

41

<210> 4203

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4203

accaagcagg ggaggtgaga wttgtgcaga ctggggatat t

41

<210> 4204

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4204

ttgcttgaat aaaaggatgc ragtcactgt attggtgaag t 41

<210> 4205

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4205

ttctttcaaa tccaattcct ractgatttc cttgccttcc a 41

<210> 4206

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4206

gaagtttacc gaaaaacaaa rcaagaaact ccccgtaaa a 41

<210> 4207

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4207

tgtggctatg gggaacatga rgctcataga aactgaagac t 41

<210> 4208

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4208

gcctggggga aactcctgtt kcctgtgcct ccgtagaggt c 41

<210> 4209

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4209

gaggctctgc cctctaggtg raagtgtgt ggttgagga g 41

<210> 4210

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4210

aggaggttgt ctggcttacc ytgctactg atggggcttc a 41

<210> 4211



<211> 41

<212> DNA

<213> Homo sapiens

<400> 4211

ttacgaagct ttttctcat ygtaggttct gggataaaga a 41

<210> 4212

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4212

ggccttgacac ctgggctggc rgtggtgcc cagaggctgg a 41

<210> 4213

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4213

gtgtgtcttc ctgtgtgtcg ragtggattg ctggttgga g 41

<210> 4214

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4214

acattccatg aaaaatcaaa racagccaga agggcaataa c 41

<210> 4215

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4215

agggggtggat gttgctgttg ytacaaaagg gtggctttaa a 41

<210> 4216

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4216

tgctggggtg tcccagcgat rgtgtttcca catggccccg a 41

<210> 4217

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4217

tagtgtttcc acatggcccc ratcagtttc agttggaaag a 41

<210> 4218

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4218

gggctgccag ccacttgggg ntggggtctc taaccacag a 41

<210> 4219

<211> 40

<212> DNA

<213> Homo sapiens

<400> 4219

gggctgccag ccacttgggg tggggtctc aaccacaga 40

<210> 4220

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4220

cagatggtga ctggactaca rtgagattg ggtaagctt t 41

<210> 4221

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4221

gaagtagagg ctgtagaagc rtgaatttct cctgagactt g 41

<210> 4222

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4222

gacaggcccc actctggtgc waggagcatg gtaatcttta c

41

<210> 4223

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4223

gatcgagggg agctttaata ygggtacagt tggaggagag c

41

<210> 4224

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4224

ttggtggaga gctggtcttt ntagcgggt ggttattggg c

41

<210> 4225

<211> 40

<212> DNA

<213> Homo sapiens

<400> 4225

ttggtggaga gctggctctt tagcggggtg gttattgggc

40

<210> 4226

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4226

cattgactga tggctcgggc rgatgtcaag ttcctgtt t

41

<210> 4227

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4227

tgcttgcaa ggatgaagac sccagatgag tcactagtat g

41

<210> 4228

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4228

aagtaatcct tggattttt ytttcttt cctctagca g

41

<210> 4229

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4229

aatccttgga tttttttt nctttcctt ctagcagtga a 41

<210> 4230

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4230

aaaaaccagc attactcacc ratgagccca ttgcttgac t 41

<210> 4231

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4231

aaaggcaaag agcactgagc rtctggctga tagcccaggt g 41

<210> 4232

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4232

gttaaaattg cattccctac rtcttgtca gaaggtaagc c 41

<210> 4233

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4233

gctcaatttc tgctgtgttt rattttgac tccacactac c 41

<210> 4234

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4234

ccaagagcct ggaatcctcc naagtctggt tctttccccc a 41

<210> 4235

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4235

gtcttgacca aaaaaaaaaa nttagctct acatgatggt g 41

<210> 4236

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4236

actatactcc agcatgggtg rcagagcaag caatatctga a

41

<210> 4237

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4237

tgaggttacg agtagccatg kgccatatga ttatcgga g

41

<210> 4238

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4238

ttatggaaat tttgttgtt ncattaaaac cttcacttac a

41

<210> 4239

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4239

tgacatctgt cattttttt ncctgctgca caaatctctt c

41

<210> 4240



<211> 40

<212> DNA

<213> Homo sapiens

<400> 4240

tgacatctgt cattttttt cctgctgcac aaatctcttc 40

<210> 4241

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4241

atgttttggt ctagatagta sagttttctt gtaatctcaa a 41

<210> 4242

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4242

acttcacca ttcacagtat ygttcttaat ggcatgcgga t 41

<210> 4243

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4243

agatccttca ttcttaggg ygtacaaatt tcaaggcttt t 41

<210> 4244

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4244

ttgctatgct agattgattt ytcctccaag agttgttaat t 41

<210> 4245

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4245

agttgtctgg cttacagtag rtgcttacta aatggtagct t 41

<210> 4246

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4246

agcttcacct gtttcagccc ygcttccatg agcttcacct g 41

<210> 4247

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4247

attcagcagc ctccacatcc yccttctccg tacttctgtc c 41

<210> 4248

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4248

gcctccacat cctccttctc ygtacttctg tcttagctag g 41

<210> 4249

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4249

ccacccagtg tccctcagtt mgaactgtcc ccagttctct g 41

<210> 4250

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4250

ttgatactcc atatttgtca yttccattg aacacattga a 41

<210> 4251

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4251

ggatgaagaga ctaaggcccc rtgtgtttta taatgttgca c

41

<210> 4252

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4252

tggtcctctg acagcctctc ygttcttccc taatttggt c

41

<210> 4253

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4253

gtccttttgt acttgggggc rtgtccaaat tcattaaatg a

41

<210> 4254

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4254

agatttttct tcttctacc yctcgctttg ctgtcctgac a

41

<210> 4255

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4255

ccttttattc ttcttgagg yaggggctca ctctgttcac a

41

<210> 4256

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4256

aagggatcac gccttggtgc rcaggctggt ctcaagattc t

41

<210> 4257

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4257

ccagaatggc ttcacctgtg stgggtgctt ggctttctgc t

41

<210> 4258

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4258

ggctcagcca agggggcctc ygtccttatg ctgaaggcaa a 41

<210> 4259

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4259

tgtgttagag ctgttttcac nggttatata tgtgtgttat t 41

<210> 4260

<211> 40

<212> DNA

<213> Homo sapiens

<400> 4260

tgtgttagag ctgttttcac gtgtatatat gtgtgttatt 40

<210> 4261

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4261

tttgtgttg ttgccagga wggctcaaa ctctgggtt c 41

<210> 4262

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4262

tatttagcat cactatgttc sagtgtaatg acatttaact c 41

<210> 4263

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4263

tccagtgtaa tgacatttaa ytcttcata accaaaacgt g 41

<210> 4264

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4264

tcagggaatt gtggtccaat wtgcagctag ggaagaaatc c 41

<210> 4265

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4265

gaaaccttaa ttccctca kgtacatagt ttctggtggg a

41

<210> 4266

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4266

tcacctcct gagtgactag rgaaagtcca gctagccct c

41

<210> 4267

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4267

ccagtgtca ataggttac ygtgtgcata gtttttatt t

41

<210> 4268

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4268

tgtttgaag tgcaggatgg rggacacatc tctgccctgt a

41

<210> 4269



<211> 41

<212> DNA

<213> Homo sapiens

<400> 4269

tggcttgctt atttactgaa rctatgttac aaagattctc a 41

<210> 4270

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4270

cacggcagga agctgcaccc yggggctgga gatgatgtct g 41

<210> 4271

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4271

agatttggga gcagagggcg rgggtctctt ctgagggtag t 41

<210> 4272

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4272

agcagcactc ctgcccagcc mcactgcctc cgtcctcccc t 41

<210> 4273

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4273

gtaaattttt cattttgaag nttatcttga tctcttattc c 41

<210> 4274

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4274

ggtgttcac ccttcaggga ygccagattc attttgaaga a 41

<210> 4275

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4275

gagcatttac caaagtgtgt ygtgcagaag aatagccact t 41

<210> 4276

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4276

gggcaaggct gcattgcagt rgcttattct tgtctcgagt g 41

<210> 4277

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4277

tttagggag ttgagaaaca satggcaaat ttgctagtt t 41

<210> 4278

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4278

actggaatta ttctggcttg yaggtacaga gattgcatgt g 41

<210> 4279

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4279

catgtgtaat caaaacctgc yggacagaaa tggctctgag c 41

<210> 4280

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4280

tcctggccac cctccccgc ngcctagag gaaaaatag g

41

<210> 4281

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4281

ataagttcat cgagctaaaa rtatattga gataaataa t

41

<210> 4282

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4282

agagtagaga caaagaaatg mcaccttgat ctgtaagagg g

41

<210> 4283

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4283

ctatgacagg ttagaagtga sgtccttggg accaacaatag g

41

<210> 4284

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4284

tgacgtcctt gggaccaaca yagggtttc ttgggaaggc t

41

<210> 4285

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4285

tgaacactta aaaccacag rcatgtaggc ctggcttgcc t

41

<210> 4286

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4286

accacaggc atgtaggcct kgcttgctt tgaaactagt t

41

<210> 4287

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4287

aatgttctca acgagttaga maattggatt gaacaatatg c 41

<210> 4288

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4288

taatttagaa cttttgttt rcctcttcca tgacttaatt c 41

<210> 4289

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4289

tggattctgt ggtttcaggg ytctattcca tgatattggt a 41

<210> 4290

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4290

tttgacttc tgcctgttc yccacagctt tgtcaacaga g 41

<210> 4291

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4291

cctactggtg ttccatgtcc rttaaaaga cctgcgaaaa a

41

<210> 4292

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4292

cccaaattgt gggtcatttt yaaaaaatg tatttatcta a

41

<210> 4293

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4293

atggaggagg aaatgtaacc ragaagctag atcttaactg g

41

<210> 4294

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4294

aattaaaaat aatgtttttt ncacataaca atggttatat g

41

<210> 4295

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4295

tttggcata attttaatc yactagaatg ttctgattca t

41

<210> 4296

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4296

tacgtgatgg cctgaagaga raaaccgtac attggttctt t

41

<210> 4297

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4297

aagagttcag agattttggg rgttggagga aaaaatagca t

41

<210> 4298



<211> 41

<212> DNA

<213> Homo sapiens

<400> 4298

cattattttt aattttttt ncctcctgtt ggtgtcagaa t 41

<210> 4299

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4299

gagaaactta cattattttt waaaaatgct ataactagtc c 41

<210> 4300

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4300

tgggagtgcc ctgggctagc rctgaaactt caggttttca g 41

<210> 4301

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4301

agacttttgg aagaagcaga wctgaaggta agactgagta a

41

<210> 4302

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4302

gtgctatttc tgagcactca yggccccatt gggcatgggc t

41

<210> 4303

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4303

tgttttgctc accccctaca yagcttgccc tcatgttct c

41

<210> 4304

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4304

agcaacagac ttggagactt ragcttctaa aagtttcatt a

41

<210> 4305

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4305

cgaatgtgat gaatgtggga rccttttga gatagcagca c 41

<210> 4306

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4306

gagtctaaat taaatatgag maaaactaga aaccatttaa a 41

<210> 4307

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4307

acagatttgc aagagtctac maaagtgata atattctgtc a 41

<210> 4308

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4308

aagccgagtc aatctcttgg statcttctg tggactactt t 41

<210> 4309

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4309

gttcccatga gggctgaccc ygcctcacc tggtaacccg c

41

<210> 4310

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4310

cgggggtagc ttcctagct ngcggagggt tctgagaaa a

41

<210> 4311

<211> 40

<212> DNA

<213> Homo sapiens

<400> 4311

cgggggtagc ttcctagct gcggagggtt tctgagaaaa

40

<210> 4312

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4312

taaagacatg ctggtaatta ygtaaaataa agataagtca a

41

<210> 4313

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4313

tgtaagggca gaatcagcag yaacgattgg atgttcccgg a

41

<210> 4314

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4314

agcaggctgg ggaaaaaaaa ntacagaggt taccattatg t

41

<210> 4315

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4315

aagggcacaaat acttaggcac nggatagaac caggtgtggt t

41

<210> 4316

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4316

ctaagtcctta agctgtcttt nccaacaatc ctacagaaat a 41

<210> 4317

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4317

caagctgggg cactttttt ntccaagtg ttattttgg a 41

<210> 4318

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4318

aagctggggc acttttttt yccaagtg ttattttgga a 41

<210> 4319

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4319

ggacctctga tttttttt ncttttgcaa acatttttaa a 41

<210> 4320

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4320

tcctacaca cccctcatct ntcagcagct tgactgagct t

41

<210> 4321

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4321

ggtttttcc agtgtgatag yacatgtaga aagcagtact g

41

<210> 4322

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4322

gcgttgagtc atgaagccga yagtgccgct tgtgcatcgc a

41

<210> 4323

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4323

acgtcccca ctgttctatc yttctcaaga agcaagcgtt g

41

<210> 4324

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4324

ccttgacagt gctcatacat rtcatttgct attgttatca t

41

<210> 4325

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4325

gtgttaaagc taataaaaaa nccctgtag acatttgac t

41

<210> 4326

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4326

ttgaccctgc cctgaaaccc wgttgagat aaaacagtgg c

41

<210> 4327



<211> 41

<212> DNA

<213> Homo sapiens

<400> 4327

gtgccctact ccacgtaaaa mtcttctgta gctcaactga g 41

<210> 4328

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4328

gcctgggtgca tgagggtgag raaaattctc agcaggagag t 41

<210> 4329

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4329

cccttttgat taaaattgca btgggacaag aaccaccccc a 41

<210> 4330

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4330

ttgcactgag gtaatggctg magaaattaa agtgagggta t 41

<210> 4331

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4331

tgcacacctgt gatttttttc naatcctgcc gcctggatct c 41

<210> 4332

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4332

tatgtttaat tgcttttact sttattgctt ttttaattg g 41

<210> 4333

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4333

taattggatg aaaggattgt ncaccaata gagcatgttt t 41

<210> 4334

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4334

tagatatgat ctttttttt naaatctcta ttgtgaagta g

41

<210> 4335

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4335

atcctctttt ttctaatacg yaccactatc tccacattaa a

41

<210> 4336

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4336

gaaaaacaac ctgtgtcctg yttggagggt cagcatattc t

41

<210> 4337

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4337

tagatgttct ttgggcattg raaagatggt gttatctgtt t

41

<210> 4338

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4338

gtttaataag gtttaattag ytctacttg ttaattacat t

41

<210> 4339

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4339

ctttgatgct atggttttca rtccacagat gttcataact t

41

<210> 4340

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4340

ttccactatg aattatattt yctgccattt taacacacct t

41

<210> 4341

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4341

aatggttttg gtcctaaatc yacactgggt caaaactaga c

41

<210> 4342

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4342

aggtgtgtct cctgtatatg rcgtggtag gttttactct g

41

<210> 4343

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4343

acgtttatca gaaaacctgt mtctcttcta gttcagctag a

41

<210> 4344

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4344

atctatgaat cagagtgatc rgaactaaaa tggatctaca g

41

<210> 4345

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4345

acattctttt tatgcttacc nctaggtata cttcaaaaga a 41

<210> 4346

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4346

agtcggtcc gaaggcattt kccactagtt ttggactat g 41

<210> 4347

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4347

atttttaaag gagtaggaca ragttgtcac aggtttttgt t 41

<210> 4348

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4348

tgtacccctt actcccatc ntggatacat gggttaaagga t 41

<210> 4349

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4349

aaagggtgctt tgatactgaa rgacacaaat gtgaccgtcc a 41

<210> 4350

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4350

cctccctgaa attgcatata ygtatataga catgcacacg t 41

<210> 4351

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4351

tttaggtgac tgaaattgca wcagtgatca taatgaggtt t 41

<210> 4352

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4352

ttctgccaca cagagccgcg sgtggcttg tgttatcac a

41

<210> 4353

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4353

tgagtccag tgacctctc ygttcaaac tgctaccgc c

41

<210> 4354

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4354

agaaagtctt taataaaaaa nccaaccttt ctattgtata c

41

<210> 4355

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4355

gaatgcatcg ctactaagta ytttgtaag ttcagacacc a

41

<210> 4356



<211> 41

<212> DNA

<213> Homo sapiens

<400> 4356

ttttgtaag ttcagacacc wtctagaatc tgcttgaccg t 41

<210> 4357

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4357

tgaaataaag cattcgcaca yctaccact ttcttcggga c 41

<210> 4358

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4358

ttggctggca ttaggctggc rttacttcag ctaacatgaa g 41

<210> 4359

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4359

ttgaacactc ttcaagatgc rtgcacagca ctgaaccgag t 41

<210> 4360

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4360

tgcatgcaca gcactgaacc ragtggctcg gtgcagataa a 41

<210> 4361

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4361

atagaagctt aaactcaciaa ncacgtactc tacatagatg a 41

<210> 4362

<211> 40

<212> DNA

<213> Homo sapiens

<400> 4362

atagaagctt aaactcaciaa cacgtactct acatagatga 40

<210> 4363

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4363

taccaaagcc tgctcatgga rtagaaagc aagactgaca t 41

<210> 4364

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4364

ccaaagcctg ctcatggagg yagaaagcaa gactgacatg t 41

<210> 4365

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4365

tggaatggaac ctcaaaggcc rcttgccca gtccccattt a 41

<210> 4366

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4366

aggagagccc acgacactga yagctgtacc tgacctgagg g 41

<210> 4367

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4367

ccgattgtgc cccagatacc rctttatttg aggggtgtgc c

41

<210> 4368

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4368

taccctgtcg ttgtccggcc kccaggaagg gattggattg t

41

<210> 4369

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4369

cccagaggcc tccgtgcagg sgaaaagccc ttggtgccc t

41

<210> 4370

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4370

tttgtagga taaaattgca ytgagtcct gttctaaacc a 41

<210> 4371

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4371

ccgggctggt gagccagcac ygggaacata ccaagtcct g 41

<210> 4372

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4372

cgcctctctgc agtctctct ntggatgaatg ctaactctgc t 41

<210> 4373

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4373

accagagag agtctgggtt ytgaattca gcgtagctac c 41

<210> 4374

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4374

ttggctttct ttgttggtg yttttgttt tttttgtc a

41

<210> 4375

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4375

cacttttatt aaagacagta ygattacata acatttgccc c

41

<210> 4376

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4376

cagtacgatt acataacatt kggcccatcc tagcaagcag g

41

<210> 4377

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4377

caaaacaaaa caaacaaaca racaaaaaaaa aaataccaca t

41

<210> 4378

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4378

catatggaga tgatgctgtg ktcctctcct tactggacct g 41

<210> 4379

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4379

tgtgggctgg aattccttga ygttgccact gcatagatta g 41

<210> 4380

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4380

catggggctg gagctgtgaa raccagtagg tactggcatg t 41

<210> 4381

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4381

atcctttgaa taactcttta rgggagagaa atgatggaaa t 41

<210> 4382

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4382

gaagtttaga atcatgacac ytcggggaag ataggatcag g 41

<210> 4383

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4383

cttgaagac atgagagttt yttggcaaga agatgttctc t 41

<210> 4384

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4384

cagttaaatg tcattaggtc ygctttaggc tggctgaggg g 41

<210> 4385



<211> 41

<212> DNA

<213> Homo sapiens

<400> 4385

tgactgttgt cccagctgga rccatttggt ctcatgcctt c 41

<210> 4386

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4386

tgccacaggt atgcccgtgt rttgaaaatg tcagagataa g 41

<210> 4387

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4387

gtattgaaaa tgtcagagat ragagatgag cagacaccct a 41

<210> 4388

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4388

gtagcatccc taaaccaaga yaaatgtcta ctatcagtcc c 41

<210> 4389

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4389

ggcaaggaat gtttggttc ygtcatgctt tccatcttgg c 41

<210> 4390

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4390

ttctatccag atatttttaa ractacaagt aagcgtgtgc a 41

<210> 4391

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4391

tgactggaga ctttttttt naaatattat tagatcaatt c 41

<210> 4392

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4392

gactggagac tttttttt waatattatt agatcaattc a 41

<210> 4393

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4393

ggtaatggcc tttttgaaa ktttagatt tgtcatcaaa g 41

<210> 4394

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4394

ggacacctgc aggctatctg ytctcatccg ttgtgtatta g 41

<210> 4395

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4395

ggaccagtag gaacagagcc rtccctgggc cctgaccact c 41

<210> 4396

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4396

ttaaccagaa gaaaaaaggc rgtgggggtgg ggagacagcc a

41

<210> 4397

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4397

tcttgagacg aaaaaaaaaa ntcagagcat ccaggtttct a

41

<210> 4398

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4398

gaggaaatgc agcggaatat ncaactctgg tttaacagg g

41

<210> 4399

<211> 40

<212> DNA

<213> Homo sapiens

<400> 4399

gaggaaatgc agcggaatat caactctggg tttacaggg

40

<210> 4400

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4400

atccacaga atctccagca rtctctcaac cgtgcttgga a

41

<210> 4401

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4401

gtgctggaga ggtaggatt rcggtcagtg gtggtacaaa g

41

<210> 4402

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4402

tgatgataaa aattacccaa rcagttatat cacagcattt t

41

<210> 4403

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4403

acagggtggc agctacctct stgtggctac tatggtgtc c 41

<210> 4404

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4404

taccgagaaa acctccctct ygtcctaaag aaagtatcct t 41

<210> 4405

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4405

ctgggccag ggctctgctc ygtgacttcg gacaagttat t 41

<210> 4406

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4406

ccgagggtga attgctgtgt ygtctcacac ttgggagat a 41

<210> 4407

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4407

gtttttcct ctgctctatc rggattcttc tcatttgaag a 41

<210> 4408

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4408

gtgtccaaag gaaggacacg ncttatgttc tccttgtggc c 41

<210> 4409

<211> 40

<212> DNA

<213> Homo sapiens

<400> 4409

gtgtccaaag gaaggacacg cttatgttct ccttgtggcc 40

<210> 4410

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4410

acatgatttt ccacggctac rtagaagtcc atcataggaa t

41

<210> 4411

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4411

aataaaaaaa taagggggga rgtgcacgca gggctagtg a

41

<210> 4412

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4412

ccccctgtgcc gcctccccac rgccgctcca ggggtggctg g

41

<210> 4413

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4413

agtctatcca cagagagtcc yactgcctca gggtctatg g

41

<210> 4414



<211> 41

<212> DNA

<213> Homo sapiens

<400> 4414

tcaccgcagt cgtcgcacag nccctcaaag tctgcaactt t

41

<210> 4415

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4415

attatatttg attttgtaaa mctcttcgtg tatcaaaca t

41

<210> 4416

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4416

cccgagacc tggcacagcc ntgttctcaa aggggagctc c

41

<210> 4417

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4417

cccagctagg acaggccagc rccaggcagt taggaccgtg g

41

<210> 4418

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4418

gctaaaacac tccaaagcct kccttaaaaa tgcgcactgg g

41

<210> 4419

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4419

cctccttgca gattttttt nctctttcag tacgtgtcct a

41

<210> 4420

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4420

tagcaggggac cccagcgccc sagagacat gcagaggtcg c

41

<210> 4421

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4421

ctatgtgaga cgtaaagaag rtagagggtgg ccaagaagga a

41

<210> 4422

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4422

agttctcttt cttagcatgg mctacagagg tgcaactacc t

41

<210> 4423

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4423

gaaacttaaa tcttgagtca yacaattgtg tctacatact g

41

<210> 4424

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4424

attacacagt atttttttt naattttggg gaaagtcgat t

41

<210> 4425

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4425

gccaggcaga ttctgactc ntataacca gagcttatca g

41

<210> 4426

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4426

taaccagag cttatcagag satttatgtc cccaaagaga a

41

<210> 4427

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4427

cagaataaca atgatggctc rgaaaaatat gggtatttct g

41

<210> 4428

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4428

acgttttgac agttgcacaa stttcttct ttaagctta a

41

<210> 4429

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4429

aatatttttg aaaatcacta sggatcctg catagtgatt t

41

<210> 4430

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4430

gaaaaatttc agttcataca mccccatgaa aaatacattt a

41

<210> 4431

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4431

acttatctta acaaagatga stacacttag gcccagaatg t

41

<210> 4432

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4432

caaagatgag tacacttagg yccagaatgt tctctaagc t 41

<210> 4433

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4433

ttttccaaa taaaaaaaa ntcaggtgat atctgtaa g 41

<210> 4434

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4434

tattaaagaa catgatgctt raaacagatt agggaaaact a 41

<210> 4435

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4435

ctctgttgta gttttttt nctcctaac atgttatcat t 41

<210> 4436

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4436

ttatgttcag caagaagagt rtaatatatg attgttaatg a 41

<210> 4437

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4437

tgccagaca agagaccaa ytgccgaggc atcatttagg t 41

<210> 4438

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4438

ttcaatctg aacattttac rtaagtgaag actttgtag a 41

<210> 4439

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4439

aaagttaggt ggtattgtat ytgcttcct ttctcaatgt t

41

<210> 4440

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4440

aatacaaaca aacttgagct ytgcttatac tttcaagaa t

41

<210> 4441

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4441

tatctaagtt ttggagtcaa rtagcacttt gttgaaatcc c

41

<210> 4442

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4442

gattgattga ttgattgatt ntacagagat cagagagctg g

41

<210> 4443



<211> 41

<212> DNA

<213> Homo sapiens

<400> 4443

gtagcaatga gaccatttt ncttcagttg agtccatgt t 41

<210> 4444

<211> 40

<212> DNA

<213> Homo sapiens

<400> 4444

gtagcaatga gaccatttt cttcagttga gctccatgtt 40

<210> 4445

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4445

gaatgtttgg ttgtaacctg yataatctgg catgaaattg t 41

<210> 4446

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4446

catgtctcttctcctcagtcctcctccttccttatatatcacct a 41

<210> 4447

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4447

tatggccaag acttcagtat rcgtggactt aattcttctt t 41

<210> 4448

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4448

atgaagacat tcattttttt nctccgtcca atgttggatt a 41

<210> 4449

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4449

gtgtgtgtgt gtgtgtgtgt ntttttaac agggatttgg g 41

<210> 4450

<211> 40

<212> DNA

<213> Homo sapiens

<400> 4450

gtgtgtgtgt gtgtgtgtgt tttttaaca gggatttggg

40

<210> 4451

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4451

gaacacttta tagtttttt kggacaaaag atctagctaa a

41

<210> 4452

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4452

ttttcttca agaaattaga ngaggggaga aattggttta a

41

<210> 4453

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4453

tgaatcaaaa tcattctaaaa ngcttcaga aaccagactt t

41

<210> 4454

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4454

atattaaaca gagttacata yacttacaac ttcatacata t 41

<210> 4455

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4455

gtgtggatag taaatgccag rgtaaatacac atagcatcta a 41

<210> 4456

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4456

atggaagaga agttttagta raggggagga aggaggaggt g 41

<210> 4457

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4457

gagagagact tttttttt naaggcgaga gtttactacc t

41

<210> 4458

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4458

gtattaactc aaatctgac wgccctactg ggccaggatt c

41

<210> 4459

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4459

tttgagat cattgccttg ygatatatat tactttaatt a

41

<210> 4460

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4460

atacatatat atgcacacac naaatatgta tatatacaca t

41

<210> 4461

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4461

taaatatgta tatatacaca wgtatacatg tataagtatg c 41

<210> 4462

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4462

ggaagtataa atttgtaaact mactgagacc caaacttaca a 41

<210> 4463

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4463

tgctattgac taatagtaat wattttaggg cagctttatg a 41

<210> 4464

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4464

tggtagtct atgtggaac mgtgaggaaa taattttata t 41

<210> 4465

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4465

caaaaaggta tggaagtcag mggagaagga gaccctatg t 41

<210> 4466

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4466

aagtatgcaa aaaaaaaaaa ngaaataaat cactgacaca c 41

<210> 4467

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4467

cattaataaa ataacaaatc rtatctattc aaagaatggc a 41

<210> 4468

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4468

tgacattgt gatatgatta ytctaatta gtcttttca g

41

<210> 4469

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4469

ttacctttaa cttttttt nagtttgatc agctctctt a

41

<210> 4470

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4470

atgcttttgg agttgggtct yataaatgta tagaaatgtt t

41

<210> 4471

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4471

atgtggaaca atcatgacta yatgcctttt actttctcta t

41

<210> 4472



<211> 41

<212> DNA

<213> Homo sapiens

<400> 4472

agaatcaata ttaa cacac ngttttatta tatggagtca t 41

<210> 4473

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4473

ctgtcctaaa gtttaaaaag naaaaaaaaa ggaagaagga a 41

<210> 4474

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4474

cctttacaaa ctcttagaca nagtttaaca tgttacaaaa c 41

<210> 4475

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4475

acttttcccc cttgtcaaca yatgatgaag cttttaaata c 41

<210> 4476

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4476

gggtgaagct cttcccccac yggaactcaa gcaagtgcaa g 41

<210> 4477

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4477

ggatgaatta agttttttt naaaaaagaa acatttggt a 41

<210> 4478

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4478

aaaggggctg aaggggtctt ycttttgtgt tcccctgact g 41

<210> 4479

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4479

cacccaccca ccaccaccac naaggtaacg ttctgcccc c

41

<210> 4480

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4480

agcctgggca acatagttag rcccccccg ccctttctac a

41

<210> 4481

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4481

aggaggactg tgaatcccag mctgcatgtt tgggtcggat t

41

<210> 4482

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4482

catctcacta aggaagaatc yagtaaccag caaggatgag a

41

<210> 4483

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4483

cccagactgc actcctgcag ygctgcctgg ctcctgtagt t 41

<210> 4484

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4484

tttcagagct gtctggaaat wtagggggca ggtgggaggg g 41

<210> 4485

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4485

ccctaccct agcccagggg yccccacatg agtatgaatg g 41

<210> 4486

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4486

agagaaccct tcattaacca ngggcgtggc tgaccagtgt c

41

<210> 4487

<211> 40

<212> DNA

<213> Homo sapiens

<400> 4487

agagaaccct tcattaacca gggcgtggct gaccagtgtc

40

<210> 4488

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4488

taaagcaca gttatcaccc rtggatggat ttgtccttt c

41

<210> 4489

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4489

ttatctcccc ttgaaaggac rctccacaga gccagaaatt c

41

<210> 4490

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4490

cagagccaga aattctagaa sagggaaaag tggaggggag g

41

<210> 4491

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4491

ctgtgaactg cagggacaga rggaaatggg tattgggaga a

41

<210> 4492

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4492

tgaactgcag ggacagaagg maatgggtat tgggagaatg g

41

<210> 4493

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4493

gacagaagga aatgggtatt rggagaatgg ccagccctcc a

41

<210> 4494

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4494

tgggtattgg gagaatggcc rgccctccaa ggggctgatg t 41

<210> 4495

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4495

ggggacagcc ttcagctgtg raattcctcc agtcctagag a 41

<210> 4496

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4496

cattattcca gtcctgaggc rtgagagcag aaggccgatg c 41

<210> 4497

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4497

ccgatgcttc tgcctccat sctaatgtcc tcctgcaggg a

41

<210> 4498

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4498

ccatcctaatt gtcctcctgc mgggacccaa ggtggatggc a

41

<210> 4499

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4499

ggtgagggtta agcaggccac ytgggccagg gtgggggtggg a

41

<210> 4500

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4500

agacactgca tctggccac rtgtgctcta cccagggtc c

41

<210> 4501



<211> 41

<212> DNA

<213> Homo sapiens

<400> 4501

cacgtgtgct ctaccccagg stcccagagg gagagggggg t 41

<210> 4502

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4502

gttcgctgag gttggcggat ractttccgt agaaagggaa g 41

<210> 4503

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4503

tgtattcata tcgtcacgct sgtaaataaa tgagtaagt t 41

<210> 4504

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4504

ggcattaggt caaaatcctg rtgggacaaa aggggaaact g 41

<210> 4505

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4505

tctgtagaaa gtacatgggg rcatgaagat cattggcttg a 41

<210> 4506

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4506

gattcccagg gaatgttaaa maggaccggg tcttcctaaa c 41

<210> 4507

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4507

tctgaccag taccagccag sggggcaagt ttccatcccc c 41

<210> 4508

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4508

gttgccatct gagatcttgc yggaagtaca caagagacc t 41

<210> 4509

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4509

ttccactggc ctttctgct yagtaattgc tacattacag g 41

<210> 4510

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4510

gaggaagctg cctcccgggtg rggacaggaa gcgggcatgg c 41

<210> 4511

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4511

cccaggagtc caacctccct ktgtccagct agaccatggt g 41

<210> 4512

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4512

cctgggacat gttttcttat rtaaacagca tcaaaagatg t 41

<210> 4513

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4513

gcccccccag gactcctcac stgtccaagt cacctaggga g 41

<210> 4514

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4514

tccgaggatg tgttttttt nccctccgtt agtcagcagt g 41

<210> 4515

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4515

tcctgtcat atgcggcacc rtcagacttc tgggcaggca a

41

<210> 4516

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4516

ggtattgatt aaaagcctca ygggcagaga aattcgccat c

41

<210> 4517

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4517

tgtgtattgt agaagtgatg rgaaatccag aacagaaagc t

41

<210> 4518

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4518

gccctctcat ttccctcca rtgctgagcg ttccagtgt g

41

<210> 4519

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4519

gcctctgtcc acagactttc rtgggccacg tcagcttctt c 41

<210> 4520

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4520

accaagaatg aggccatccc ktccccacgt ggctgcccga t 41

<210> 4521

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4521

tgggttcaaa gatggaatgg kgcataactc agcaaaatta t 41

<210> 4522

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4522

gggagggagg ctggacaggg satgaaggca gagcctggtg g 41

<210> 4523

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4523

ggaggtggga cccaggatgg ygtttcttgg gaccacaagg a 41

<210> 4524

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4524

actccccgg cccactcac rtctgccacc ttccctccct g 41

<210> 4525

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4525

actcattcca agtattgatc ragaagagag gtaggtactg g 41

<210> 4526

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4526

ttgaagatct taagttgttt ytggttcaact catttcgcaa a

41

<210> 4527

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4527

agctaaaagc aaaacagcct ytgacctggc aagcattccc a

41

<210> 4528

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4528

tgtcctactt ttcttttgac scftataact tcttgacttc g

41

<210> 4529

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4529

ccagctccta gtgggctgga rggaaggaca tgcggttggg g

41

<210> 4530



<211> 41

<212> DNA

<213> Homo sapiens

<400> 4530

ttgcaaactg agttagggcc yggagagctt actgtgtgct g 41

<210> 4531

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4531

tgcacttgcc gcctacttat kccagaccca atgattgggt c 41

<210> 4532

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4532

tatagattaa tgaggctctg rgtccctcaa aaccttcct c 41

<210> 4533

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4533

cccttacctc tccaaaaaac rcttgagata ccctagaggt g 41

<210> 4534

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4534

ctcaggatct tcctggagga yatgggtcac tcccatgaga g 41

<210> 4535

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4535

actaagcaga ttctaccaa ytgacacctc ccataccctt g 41

<210> 4536

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4536

gaacaagccc ctgagaatgc yttccgcacc ccctactccc g 41

<210> 4537

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4537

acaagcccct gagaatgcct yccgcacccc ctactcccgc c

41

<210> 4538

<211> 41

<212> DNA

<213> Homo sapiens

•

<400> 4538

gcccttccat cgatcaccca yacccagcca tctcactccc c

41

<210> 4539

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4539

tctcactccc caggtgctta yctgcactcc agcctctcca t

41

<210> 4540

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4540

cataggggag agggcaggaa yggaggggaag ggagagagcc c

41

<210> 4541

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4541

tagtatttaa cctgcccaaa ygctgtgtga agtgctgacc t

41

<210> 4542

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4542

tcccctccac aagcttagac raacaggatt ctcctgtgac t

41

<210> 4543

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4543

tttggtgaca gggcatcaac ytgtctgggtg gtcaacgcca g

41

<210> 4544

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4544

caaggatagc acaaatgacc nattgcagac ttcagatgga g

41

<210> 4545

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4545

gaaggtaggt atatccaggg rtggccaagc agccaccct g

41

<210> 4546

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4546

gttctgctag aacctgaact yataaaggct ttcctgtct t

41

<210> 4547

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4547

gtgagcgtct gcacatccaa staaagattg ttttctctc c

41

<210> 4548

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4548

cgataagtgg gtgtaatttg yccatcccca cccatgagtt c

41

<210> 4549

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4549

cagctccctg ccctccctc rctctctctc cctcagccag c

41

<210> 4550

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4550

gacagctgct gagtcaggcc ragccggcag ctgagaaagg c

41

<210> 4551

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4551

cagctgagaa aggcggcagt sgtcagatgg gcttgagaaa c

41

<210> 4552

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4552

cctccaaaa ataaaaacaa ncagaaatga aggaaataga a

41

<210> 4553

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4553

tggggtaagc ggaagacggg rttgaacgct ttgagtttg t

41

<210> 4554

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4554

ctcttaggga tcttgtctaa ktaaagaaga gcagagcaaa g

41

<210> 4555

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4555

cagatcccag cttcctgtaa rcagcctcag atcaggccaa a

41

<210> 4556

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4556

gcgcctcaca ctcctataac rcgcacatgc cctgatgcac a

41

<210> 4557

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4557

atgcctgat gcacacacat yttcaacacg cacttactct a

41

<210> 4558

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4558

agacacgtca ccctcccaca ygtctccacc ctgggggtgt g

41

<210> 4559



<211> 41

<212> DNA

<213> Homo sapiens

<400> 4559

tcagtccct cagacacatg mcctctctcc acgcagagac a

41

<210> 4560

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4560

gcggccaagg agagtgatga yggcagccca ggttgatcag a

41

<210> 4561

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4561

gctcctgggg ctccagcctt ygcagccctt gtgtgtgtct g

41

<210> 4562

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4562

ggcttcgcag tcacctcgtg kccctccagg gccgaggcct c

41

<210> 4563

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4563

agggacctgg gggcagacag ygaggccacc ctgtattga g

41

<210> 4564

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4564

cccaggga ggaactggcct stgtggccg tcacagtgc a

41

<210> 4565

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4565

aggacattct ggccacatgc ntcacctcc tcctccaage c

41

<210> 4566

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4566

tgccccccac cgcggtggt rtcccacca tctgaccgc c 41

<210> 4567

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4567

tgtgtttct ccttaaagag mtattgttt tccccccaa a 41

<210> 4568

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4568

gctggccttc tggcttcag wagtgtatt ttaagaatca g 41

<210> 4569

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4569

tgcagaagtt gtattttaag ratcagagct cttgtgagga g 41

<210> 4570

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4570

ttctgtggaa atcagaggct stctaaaata ttcctaattt t 41

<210> 4571

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4571

tggacgcact caacattttc ragttattac tccttcaact c 41

<210> 4572

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4572

aggatatcat gaaacactga mtcttagtaa aaactatctt t 41

<210> 4573

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4573

tactgtggaa ttttcttgc macagagata tgtatttttc a

41

<210> 4574

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4574

cagtggtaga tgtgtttct rttgcatca tctacaaata t

41

<210> 4575

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4575

tatgagttgt tcaaataggc ncagagaatt gaatgcttc t

41

<210> 4576

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4576

tcagtcgtat tcctactaaa ncaaaatgtt gtaagttatg t

41

<210> 4577

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4577

ctttttattt gctgcttacc rttttactaa ggttgatat a

41

<210> 4578

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4578

cttttaataa atgcaaactg yacacctggt ctataaaaag a

41

<210> 4579

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4579

cctatagaat ttttcttttc kttttctca aaaaaattaa a

41

<210> 4580

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4580

ttttttttt ctcaaaaaa ytaaagtgtt gttatttatt t

41

<210> 4581

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4581

ttctgtagat gaagcttaag wgctagatct tattgaaaa a 41

<210> 4582

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4582

ttttaactt attgtttgcc ktttcattt ttaatagaaa a 41

<210> 4583

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4583

cgaatttgct gcttttagag waatctttgc aaataataaa a 41

<210> 4584

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4584

attttcttc ttgtaagtat sagtgataga gctgactgca g

41

<210> 4585

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4585

atttgaaga cttttaaata ragataattg tgctgggtgc t

41

<210> 4586

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4586

tgctgctgtg tctatatctt rctgagaaaa ctagaattta t

41

<210> 4587

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4587

ataagtgtc tcccagtgtt rattggactt agagcatttt c

41

<210> 4588



<211> 41

<212> DNA

<213> Homo sapiens

<400> 4588

caaacacagaa taatgaaaag ntattatcta aaataataaa a

41

<210> 4589

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4589

aacatactct cctcctctct naagtcaaaa tatattagta t

41

<210> 4590

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4590

aacatactct cctcctctct naagtcaaaa tatattagta t

41

<210> 4591

<211> 40

<212> DNA

<213> Homo sapiens

<400> 4591

aacatactct cctcctctct aagtcaaaat atattagtat

40

<210> 4592

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4592

ttctgtgaaa gtgtcccaaa wtgtgccttt aaattgttt t

41

<210> 4593

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4593

agtgtcacat gtatttttc yggatttcct atgtttatca a

41

<210> 4594

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4594

ctcatttcaa acttggtatc ytgactctc cccaggcatt g

41

<210> 4595

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4595

atcccctagt gatgtacact ragcttgcct ccatctttcc t 41

<210> 4596

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4596

ctgatttata tattagctga yttccaagt tcagacatct a 41

<210> 4597

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4597

ttcttttact tcaatgtagc nccaaatcag aaggtgacat t 41

<210> 4598

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4598

atcccactgg atttaattac mttgtgtagc ttgtacaacc a 41

<210> 4599

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4599

atcttggaag agaaattata kaacctcca caactgaatt t 41

<210> 4600

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4600

aatcctggtg tttttttt ncttttcat tttcagtag g 41

<210> 4601

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4601

aagtaactca aggaaagatg rttaacttg tgaaatcgta a 41

<210> 4602

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4602

ctcatagttc agaagagttc mgagcccaat tcagaagagt t

41

<210> 4603

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4603

tgaacctata aaattctaatt nccatctttg gatgaggtgc a

41

<210> 4604

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4604

ccagggacaa aagaagatga ygtaaaactta aggattggga c

41

<210> 4605

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4605

agcaagccag gaagaaagtc sattaagttg tatttagaaa t

41

<210> 4606

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4606

atagccatga aggataagaa ntgccatttg ttatgttca g 41

<210> 4607

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4607

aactctttct ctcatctgc ngcaagcctt gaaggagagt g 41

<210> 4608

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4608

gcatgcaaaa taatgaagaa racaatcttg tctgacattg a 41

<210> 4609

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4609

aaatatttca gaatttgggg rtgtagagca ttgccgtca t 41

<210> 4610

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4610

cttgtaagtc ttttttttt naaagtaatg aaaatttcta a 41

<210> 4611

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4611

agacaacact gcttttttgt rtgttcacaa ttcaacgaca g 41

<210> 4612

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4612

aactggctga aaggaaaaaa wtcattattgc tgtaaatatt t 41

<210> 4613

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4613

tgcttttgct ttccacttca rtatccagaa aactctctca t

41

<210> 4614

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4614

aacatggaac tatagtaaat rtagttttt tggggttcag a

41

<210> 4615

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4615

aatttacact tttttttt ngcaggagaa tattttgcaa a

41

<210> 4616

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4616

aatggagctc atgcatgtgt kttcaaatat atacatgcaa a

41

<210> 4617



<211> 41

<212> DNA

<213> Homo sapiens

<400> 4617

agtcccaggg ctagggcaca rgcacctcc tgcctaactc g

41

<210> 4618

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4618

acaatccttc cagccacctg yctcaactgc tgccccaggc a

41

<210> 4619

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4619

gggcacaatg gcatccatcc yccgaaggcc tgtgtgtgct c

41

<210> 4620

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4620

gagacctggc cccaccaat ygtaacctct ggctctcggc c

41

<210> 4621

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4621

aagcctctct gtgtctgtca yccccgcag gtggagctgg c

41

<210> 4622

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4622

agaagtttcc cttgctttcc rtcaagcttg gctctgctcg a

41

<210> 4623

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4623

gcgagacagc acctgcagcc rcttcgctcc atggctgcca t

41

<210> 4624

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4624

ggtccttcac aggacattcc yaccactca gccacacccc a 41

<210> 4625

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4625

aatggcctgc gtgctggcct ygggcattgg gaggctctca a 41

<210> 4626

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4626

atctgtgtgg ggtgtgtgca ygggcggcga tgtgagcgtg t 41

<210> 4627

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4627

ggcgtcagcg gctgttgccc ntgcagggtgg aggaaggcat g 41

<210> 4628

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4628

acatcccttt cttgcctggc rgattgaac tcttgagtc a 41

<210> 4629

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4629

tacagaatca cctttgtcaa rccttaagcc ttattgaaa g 41

<210> 4630

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4630

gtagccgccg ccgccgccg ycgcgcgtcc cctcgccggc t 41

<210> 4631

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4631

atactttgcc atttgagata ycagtttgga gttgatagct g

41

<210> 4632

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4632

ctttggacct atactagttt ycttaggcat tgtgcttaga a

41

<210> 4633

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4633

accacagtgg tcttttttt rtatttaaaa aaattattgg g

41

<210> 4634

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4634

cagaactcac ttccttattc rgtttttaga taacattgtt t

41

<210> 4635

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4635

tggttcttta attttatgat rtgtttgta tagctatctt a 41

<210> 4636

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4636

tctcttggtt ctgaagtatt wtttcatttt attttatgtg a 41

<210> 4637

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4637

gtgaaatgct aggttactgc yatacagcta ccctaaatgg t 41

<210> 4638

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4638

aaagcatttc aaagaatcac rttgagcatg tttagtagaa g 41

<210> 4639

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4639

gacaacagaa tagctaatcc rgaccagctg cttacacaag a 41

<210> 4640

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4640

aaatatttaa tgcttttata rgaaaattag agttgttgta a 41

<210> 4641

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4641

ggtcacagtt gacctagata yacagttttg agacaaaaga a 41

<210> 4642

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4642

aatcttgaat acttactagc mcatatattg tgctagatag t 41

<210> 4643

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4643

tcattctctt ccataggctt rgggtggag aggagataga a 41

<210> 4644

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4644

tctgttgagt tggggatcct rtggaaacct ctctctcat c 41

<210> 4645

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4645

gaaaagtga tgctgagtag kttagccagg ctgatttag a 41

<210> 4646



<211> 41

<212> DNA

<213> Homo sapiens

<400> 4646

ttctaaaagt tcagagaaac wctgtagctc attattcctg g 41

<210> 4647

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4647

ctcaaaagaa aaaaaaaaaa maaaaaacac atgatccata a 41

<210> 4648

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4648

cttaagggtt gtgttttact ytgagcaatt agtatttccc a 41

<210> 4649

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4649

atcataaaca gagaaataat rtcttaaatg agctctgaaa a 41

<210> 4650

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4650

ctagaaatca aaggcattta raatatagcc aagcctttat g 41

<210> 4651

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4651

agtagcaaaa taatcatcac rccagtgatc atgtgaagga g 41

<210> 4652

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4652

taactttctt gtagttagcg naactgtttt actttttagg g 41

<210> 4653

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4653

gttttttggc atttttttt naaccttcag tccaggttt c

41

<210> 4654

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4654

ttggtgtaaa acctgtagt naacaaatgc aaatatagt t

41

<210> 4655

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4655

gggaatgggg ggtgtatcta ntacaacttt ccatgtaatt t

41

<210> 4656

<211> 40

<212> DNA

<213> Homo sapiens

<400> 4656

gggaatgggg ggtgtatcta tacaacttc catgtaatt

40

<210> 4657

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4657

cagatttact tttttttt naatcttgaa tacttactag c

41

<210> 4658

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4658

tgaaacataa taaagcacac ngttatcatt aatactttat g

41

<210> 4659

<211> 40

<212> DNA

<213> Homo sapiens

<400> 4659

tgaaacataa taaagcacac gttatcatta atactttatg

40

<210> 4660

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4660

ttaattactt cacagactga ncagggtcga tctggggcta a

41

<210> 4661

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4661

gttcctcagg taagacctag nttgagttat ctttgatcta a

41

<210> 4662

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4662

gcaagactct gtctcaaaag ncacatgac cataatagag g

41

<210> 4663

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4663

ttaatccatt ttgtaaatc naccttaaat tagcaactat c

41

<210> 4664

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4664

taaaataaag ttgagcttag naaaaaaaaa acaaagcaac a

41

<210> 4665

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4665

gttgagctta gttttttt ncaaagcaac aaattaacta g

41

<210> 4666

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4666

acttatttct tgttcagatt nctcagatat cctatacaac c

41

<210> 4667

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4667

tggcattctt ttttgaaaa raagaacctc aggtgcacaa a

41

<210> 4668

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4668

cttctcagtt cttgacaccc ygtgggcca tgcaaggctc c 41

<210> 4669

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4669

ttaagcacgt tgatcttgct rttggccac gtgggactga t 41

<210> 4670

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4670

cctaccctc attcagtagg rgggctacca cctgctcact c 41

<210> 4671

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4671

gacaggggct acctgagagg kaacaggagt cagggctgag g

41

<210> 4672

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4672

tagcttagt ggcctagcgt rgggcctgaa attgtcaaat g

41

<210> 4673

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4673

gaaattgtca aatgaatgaa ygcctcatcc tcttgctggt g

41

<210> 4674

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4674

tctatggaga cctgagtccc rcagagctta gcaccctggt c

41

<210> 4675



<211> 41

<212> DNA

<213> Homo sapiens

<400> 4675

atcagctgct tcaccagct mātgcacctg tccacgacgc t 41

<210> 4676

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4676

gcgagatcct gggcgagagc ragtggggct tggacacgtg a 41

<210> 4677

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4677

tggattgggc ccactactca yagcagctcc tgaggcaggt a 41

<210> 4678

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4678

acgcgtatgt caaacaccca rggtcggatt ctggggcccc t 41

<210> 4679

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4679

cctctgtccc tctggcccat scctctccct gaggcagggc t 41

<210> 4680

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4680

gtgggaggag aagcagcggc rgcagagggc agggctttga t 41

<210> 4681

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4681

ggcctgagga ggagaaagaa yccaaaggct cagcctggcc a 41

<210> 4682

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4682

gccaggtct aggtttctgt rggggacact gaatctcca g 41

<210> 4683

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4683

gcaataatca ttggctagag rtattgtgat atgatgtcat t 41

<210> 4684

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4684

caccaaata tggtagctg yctggattg ggagatgcag t 41

<210> 4685

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4685

actgggggc cgggtgagg mtcctgcact cggtttctgt g 41

<210> 4686

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4686

actcggtttc tgtgatggtg wgtgcagggg agtcacaagt t

41

<210> 4687

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4687

gggcccaacg ggtttctaga yccctccaga gaagcctttg g

41

<210> 4688

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4688

ctgggtacag gttttgttcc rgttggcttg ctattgagta t

41

<210> 4689

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4689

ttaaaatgag ttgttttct sctaaagcct ttagggagtt g

41

<210> 4690

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4690

ttgtcactt ccttcgtctc yggctctact tcctggggg t

41

<210> 4691

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4691

gttccttgga ggaaacgtgg rgtacacagt ggtccagtt a

41

<210> 4692

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4692

acagtgaagc acaaggcagc ygaagacaca gcaggcaggt c

41

<210> 4693

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4693

aggtcaggtc tgtgtgcaca ytggcaggct gertgcagac c

41

<210> 4694

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4694

ggctgcrtgc agaccagcct yggcccagggt ggagaagcag a

41

<210> 4695

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4695

ctggacatgt gactcccctg yacccaccct cacaagcacc a

41

<210> 4696

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4696

cagggtgata gggagtccaa ytgacacag gttcagtttg c

41

<210> 4697

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4697

gggggtgaac agagggcaga rgcctgggca tcttactca g 41

<210> 4698

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4698

gaagggaaga agcagcagca rgaaagaagc cccctggccc t 41

<210> 4699

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4699

tgacccaggg caccctagag wggcgcccgg ctccgatcgc t 41

<210> 4700

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4700

gctgccctg cccctccgcc mgggccacct ggagcctcgg g

41

<210> 4701

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4701

cagtactgt aagtgtgtt yccaggggtg gtcargaatc t

41

<210> 4702

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4702

gctgttycca ggggtgtgca rgaatctccc ttctggtt t

41

<210> 4703

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4703

gctaagcaga gtaggcccc rgctagtcct tgaatgagag a

41

<210> 4704



<211> 41

<212> DNA

<213> Homo sapiens

<400> 4704

atgctggagc ccctgagttc rgtgggcata caaggggtgg c 41

<210> 4705

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4705

ctcgcatcac gcagtttca ygatcctatt aatgggtga g 41

<210> 4706

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4706

cctgggcttc agcaggggcc ycacacctgc aatgggtgyc t 41

<210> 4707

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4707

ccycacacct gcaatgggtg yctggggaga gggcgcagat g 41

<210> 4708

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4708

tcctaaagccc agattgggtg ytttggggc tctttggaa t 41

<210> 4709

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4709

ctggcggagg aagaaaggta rggagggcgg ctgcttctg t 41

<210> 4710

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4710

agctcaggag gtgtctggaa ygccacacag tgcaggagtt t 41

<210> 4711

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4711

aattctcctt ctcaacttaa rgaaatattt tatagaaaaa t 41

<210> 4712

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4712

agagcctgca atgggccgcc ragggacctg cccatgactc a 41

<210> 4713

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4713

gaggggttga cagacaggat rtgtctgstg tgttccagct g 41

<210> 4714

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4714

tgacagacag gatrtgtctg stgtgtcca gctgctggtt t 41

<210> 4715

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4715

ccctctctgt gccactgtt stcccaacac cagcctgttc t 41

<210> 4716

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4716

tataatagat tcctagcaga raacataatt gtgagaggaa c 41

<210> 4717

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4717

gctttcagag ccattcaca yaagggtctc attttattag g 41

<210> 4718

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4718

ccaggtctgt gggatttcag rccaaaaagg agcgtagcaa g

41

<210> 4719

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4719

gggttaaata ttccgggcag ygccaagtca gattatctgt a

41

<210> 4720

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4720

gctaaagtgc atggaaggca ycatgaataa atcctttcag g

41

<210> 4721

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4721

gcctgagagc gctggcagta rgaagggtcg ccagtgtgga c

41

<210> 4722

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4722

gggctctctt ggagcccttt ktctctcca gccctgcgtc t

41

<210> 4723

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4723

gggatttcga atctcaacac yctgagctct gtgctttccc c

41

<210> 4724

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4724

ctattggcag gtcgtgaaca ytggtcttgg attgcaaatt a

41

<210> 4725

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4725

acatggccgg cttcccttct ycctcrgaat ggcctggaat t

41

<210> 4726

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4726

gccggcttcc cttctycctc rgaatggcct ggaattcgat c 41

<210> 4727

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4727

acaagactta gaatttgacc rtgattttaa aactattcta a 41

<210> 4728

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4728

ttcttggatg tggccatgca ygggggcaag ggtttgatga g 41

<210> 4729

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4729

atcatgtggt ttgggggaaa sctgggaccc cacttggtac a 41

<210> 4730

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4730

attgtttctc ctggtttgt ytgtgtgac ttcccttta a 41

<210> 4731

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4731

aaacagggt tgagtcctcc rtaagggaca ggagaccttc c 41

<210> 4732

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4732

tgaaaagaaa atggatgagt rgaamccaaa agagagaaaa t 41

<210> 4733



<211> 41

<212> DNA

<213> Homo sapiens

<400> 4733

aagaaaatgg atgagtrgaa mccaagag agaaaatgtg g

41

<210> 4734

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4734

aagcagaggc tttccacc rgagactcaa gaagctgctc c

41

<210> 4735

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4735

gtggtgaagt agagctgagc wcacggggga gccctccatc c

41

<210> 4736

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4736

cagcaggctc cgtgctgaag ycacagcaag ccaggccctt g 41

<210> 4737

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4737

agccaggccc ttggcctgcc rgagctggaa gaccagaac a 41

<210> 4738

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4738

gcctcccagg agtagctaca ygggaccca aggagatgg c 41

<210> 4739

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4739

ggcagcctgg gctgccgaga ycctccctgg agcggccgcc g 41

<210> 4740

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4740

cgccccccgg gaagccccag rggggctgga gctacargtg g 41

<210> 4741

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4741

ccagrggggc tggagctaca rgtggccttg caggtttttt g 41

<210> 4742

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4742

ccagctcatg ggcaggggtg yggagggaaa ggcaccaca g 41

<210> 4743

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4743

gaagaccagc agtcgatgcc rgctgggaag agggctctgc c 41

<210> 4744

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4744

accaccagc ctttccaga yagcctcca gaagctgtt c 41

<210> 4745

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4745

gagccgctgg agtaggtcc rcttgctatg gctcccagg g 41

<210> 4746

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4746

tattgactgg acaccttctc ygtatggggc actgggctag g 41

<210> 4747

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4747

atcagtaacg ggtcactaac rgatgctgct gagtggggca g

41

<210> 4748

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4748

tggcccactg ttgagggtgt rggtgaccag aggggcctgg a

41

<210> 4749

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4749

ctggaggaga agacaggata magtctaaga cgtgytgtca c

41

<210> 4750

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4750

aggatamagt ctaagacgtg ygtcacaga gttcagggtc c

41

<210> 4751

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4751

gcttccaaag gccgcatccg kgttgttctc tgagcygagg a 41

<210> 4752

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4752

atccgkgttg ttctctgagc ygaggacggc ttgcgaacg c 41

<210> 4753

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4753

tggtgacag tgaacacagc rgctgcttct ccagaacttt a 41

<210> 4754

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4754

acccggagag ccatggcagg mccaagtgtt ctggacgttg c 41

<210> 4755

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4755

atgggggcca cagccctgcc ycagaagcag ctttgtctc g 41

<210> 4756

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4756

gggggaagag cttgggaacc rtgagggtg ttaggctgca a 41

<210> 4757

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4757

tgaagggtga actggagtag stgaggattc tgcagttgac g 41

<210> 4758

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4758

ctccaccctg cacctccctg ncctccttga ttccctcat c

41

<210> 4759

<211> 40

<212> DNA

<213> Homo sapiens

<400> 4759

ctccaccctg cacctccctg cctccttgat ttccctcatc

40

<210> 4760

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4760

cagttccag aatttggggg ntcccataag ctgtcatact t

41

<210> 4761

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4761

tgctgagagc tccccttgcc ntgggtgatc ctcagggttc t

41

<210> 4762



<211> 40

<212> DNA

<213> Homo sapiens

<400> 4762

tgtcgagagc tccccttgcc tggatgatcc tcagggttct 40

<210> 4763

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4763

agtcctccctt gcctggttga nttctactta gaatgcctcg a 41

<210> 4764

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4764

cgcagctcaa gcctcgctccc nccccggggc atggcctgtc t 41

<210> 4765

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4765

tcttgccttg agctcaagag ntagccaggt ttctgcgcat g 41

<210> 4766

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4766

ctgatgagga ggggaggggg ncaccaggca gcagactctg a 41

<210> 4767

<211> 40

<212> DNA

<213> Homo sapiens

<400> 4767

ctgatgagga ggggaggggg caccaggcag cagactctga 40

<210> 4768

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4768

catgaacttg cctgaccata nccctgtgag gagctagggc t 41

<210> 4769

<211> 40

<212> DNA

<213> Homo sapiens

<400> 4769

catgaacttg cctgaccata ccctgtgagg agctagggct

40

<210> 4770

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4770

tcatttgaaa gtgggtatgc rgtttaaac tgacagtca a

41

<210> 4771

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4771

agctagtcat aaataaatac rccagagtag taaggaagag a

41

<210> 4772

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4772

cctcatgaat ggtatacatg wcccaacata tctctttcga t

41

<210> 4773

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4773

acagtgggtcc ctttgggtgc rtatacccaa atccctgcat a 41

<210> 4774

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4774

ataggaataa ttgagaacag rgtctgaaga actctgcagg a 41

<210> 4775

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4775

ctgaagaact ctgcaggaaa yraaaatagt tccctgcttt t 41

<210> 4776

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4776

tgaagaactc tgcaggaaay raaaatagtt ccctgctttt a

41

<210> 4777

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4777

tcacttaagg cttgcaggg kgtctaggac acagaaagag a

41

<210> 4778

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4778

aaagtgtctt taaaattcc rtcttgagtc agtgagctat t

41

<210> 4779

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4779

tcttgagtca gtgagctatt kaaattcaag caataagta t

41

<210> 4780

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4780

ctgtttggga acagcaactc matcataggc agagagaaag t 41

<210> 4781

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4781

atttcaaacc tggttcacaa rttgttaagc tcattttaag g 41

<210> 4782

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4782

gaaggtgcat aacaacttc kacataaagt ctggagctat a 41

<210> 4783

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4783

ctattgcttt tctgtctgca kaaagataaa aactctccag a 41

<210> 4784

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4784

atgtcgaagt tttatccca rtgtcacaag gaaacaccaa t 41

<210> 4785

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4785

tgtaaaaaga cagcttttta rttacctac agtgaacctc a 41

<210> 4786

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4786

caaccctaaa ttgaggggcc ygggcgtggt gattgagaaa g 41

<210> 4787

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4787

gttgacagac ttttatgtg mgggacactg acctgcatgc a 41

<210> 4788

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4788

atgtatgtac cacgtcttca yattcttaaa ggatgaccct a 41

<210> 4789

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4789

ggcaaactctt cgtgagtata rgagagtata agtaagcgtt t 41

<210> 4790

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4790

tgacgggtgag agaaaactta magttctcag cagctcttcg g 41

<210> 4791



<211> 41

<212> DNA

<213> Homo sapiens

<400> 4791

tcctattctg tttaataaa rgcattgaat ttaggtttgc t 41

<210> 4792

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4792

gtcaggctga actagagcaa rcaatctaaa ggcaagaata g 41

<210> 4793

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4793

tatactaata aatgggtgtgt wtaagtttt atctctaatt g 41

<210> 4794

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4794

gacgcttatg tgcagcctat kttgatgtct ggaaaggctg a 41

<210> 4795

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4795

ccctgagggc tgaggatatct rgattatttc cagacttgct a 41

<210> 4796

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4796

tgtgagtagg tctttgttct rggaacgggg ctgtccagca g 41

<210> 4797

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4797

tgttcttcaa ggaaagcccc ygtcaaagaa ggaaaagaag c 41

<210> 4798

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4798

atgtctttag tcttgcctat kggtaagtc agttgcacct t 41

<210> 4799

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4799

tatgcagtta catggacaga yacaacattg gagaccgagg g 41

<210> 4800

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4800

gctctgataa ggaattgttt yttccttca ttcttcctg c 41

<210> 4801

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4801

ttactcaagc aggcctgact yttagtattt gctttttgta g 41

<210> 4802

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4802

ctaataaaaa caaacaagaa ygaaagattg tcaactgtaaa t 41

<210> 4803

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4803

taactctttg gaaacttctt raaatttaaa actgtttacc t 41

<210> 4804

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4804

ccaggggcac tgaattttc ygagcctacg tttctcatc c 41

<210> 4805

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4805

gccgcatagt catgtgtgt wgtttttaa ttaacttgga a

41

<210> 4806

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4806

aacaagaaac acttgaataa rttgagaaaa aaccccgtt t

41

<210> 4807

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4807

tgagtagctg ggattacagg ygcccaccac cacacctggc t

41

<210> 4808

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4808

gttgggatgg ctacactcac naaagcctga tggcccgtt c

41

<210> 4809

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4809

ctgctagttt atttttttt naacatttt aatttatgtt t 41

<210> 4810

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4810

tcaatatgtt tctgcttacc naatgggtac ttaaccctaa t 41

<210> 4811

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4811

aaacactga ataarttgag nccccgttt cacataatgt t 41

<210> 4812

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4812

ggcctgggtg tcccatgttc rgaaagtcct gcaccagtgg g 41

<210> 4813

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4813

gaacacagaa ggtattctga ragggcattg acccccatcc t

41

<210> 4814

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4814

tggtgtccct catgaagtcc ytggcacagg ggggccgtac c

41

<210> 4815

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4815

ggcctcctag gggtagagat ytcaccgtcg cctgccttc c

41

<210> 4816

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4816

cttgcccttg ggaagtgagt rtgaatctaa actgagctct c

41

<210> 4817

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4817

ccccagaggc attgcaacca rtgggtgcta ggaagaacct a

41

<210> 4818

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4818

acgagataag tgayggtcat rtggccaggg aggaagggga c

41

<210> 4819

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4819

gggggacagc ttgaacaaga rtgtggaggc aggatggaca c

41

<210> 4820



<211> 41

<212> DNA

<213> Homo sapiens

<400> 4820

gagtgacagg cacatacatg mgaacaggcc atctcagccc t 41

<210> 4821

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4821

ccctggcccc cccgcccgcc mcgggggctt aggctacact g 41

<210> 4822

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4822

gcttgagggc atcttgaatg ygcctcatcc aaactggact g 41

<210> 4823

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4823

gagcaaatcc agcccacagc rtgtaaaatm ctgataagta a

41

<210> 4824

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4824

cagcccacag crtgtaaaat mctgataagt aattcagtgg g

41

<210> 4825

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4825

acagagatga gaaggaggct ygggaatcta ccctggctgg t

41

<210> 4826

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4826

tcctttgttc cagaatatat ytatatctag ttatttatg c

41

<210> 4827

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4827

atttcagata tgtccattct ytggtgggt caaagctaca t 41

<210> 4828

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4828

gggtgtctgg aaacaaaact yattaccata tgagtatctt c 41

<210> 4829

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4829

tccccctggg gtttctgcag wtagaggtaa tcagtacagg g 41

<210> 4830

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4830

agcttcttga ttagaaattc rgtaaagaat ttttttagt c 41

<210> 4831

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4831

ggagttacag gctttaagta sagcgaagag aattggaaga a 41

<210> 4832

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4832

ttaaatgtgg ctgggggta yaaattgggt cccattaaa g 41

<210> 4833

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4833

gattatatgt cttgatgtg ractcacact gagattgtac c 41

<210> 4834

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4834

aaagcattta tgataataaa rttcaaaac ccaaacactt a

41

<210> 4835

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4835

cagagacatt caaagtgcacat ygctaccctt gtgatcacac a

41

<210> 4836

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4836

caactattga gttaccaaca ygtaatatg aatgagctca c

41

<210> 4837

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4837

gtaccgtag ctctctttg ragctgattt taggacagcc a

41

<210> 4838

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4838

tcatggagct agtgggactc rtgcagggag agctccaggg t 41

<210> 4839

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4839

tcaacaagcc tgcttactgc rgtagttgt gaccattgtc t 41

<210> 4840

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4840

tgtctaagta attaatgtt ktcctatgag agctgaagga g 41

<210> 4841

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4841

aaggccctga aatggctgtt kctggctatt gttccgagct c 41

<210> 4842

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4842

caaacagaaa gaattttata ycttttgatt gacagaaaat a 41

<210> 4843

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4843

attttcacaa tgaatgttgg ktcggtctct ccttcctttt t 41

<210> 4844

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4844

ggtagttct aactttctac rttgtacct tcaactttct g 41

<210> 4845

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4845

tgaggattaa aataaaaaac ygtaggaatg ggctcaacag t

41

<210> 4846

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4846

catagcactc agcaagaaac stgtgctaaa gactgaggtt c

41

<210> 4847

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4847

gggcacagct ccctgggagc nagaactccc gatagcagag t

41

<210> 4848

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4848

agcgggttgg gtgagccctt naggtaggtg tgggtgtggc t

41

<210> 4849



<211> 41

<212> DNA

<213> Homo sapiens

<400> 4849

ggaattaaga ctagtcagac ngcctgcagg ataaaagact g

41

<210> 4850

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4850

cttttttgt agtctgggcc nctttcctg ttcttactct g

41

<210> 4851

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4851

taccctaataa cttaaagtat ncctaccgaa aaaaaaaaaa a

41

<210> 4852

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4852

aagagagctg cagcccaggg kcacagacct gtgggccc t 41

<210> 4853

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4853

cctttgactg aattcgggat rtggcaggat ttgaagcagg a 41

<210> 4854

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4854

cctcacaacc tgaaaggcca kgtgtaaatt gagaaattct a 41

<210> 4855

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4855

tggtacgggg gagccacttc yagcccgagc cacaacctgt c 41

<210> 4856

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4856

tgggacaatg aagcaatgtg yacagtgaca gcggagaggg c 41

<210> 4857

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4857

gggttgaggt gggaatggaa mtctggagtt ctactcactg g 41

<210> 4858

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4858

tacacaaatc agcttaaaga wctctcatgt acacaccacc a 41

<210> 4859

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4859

gaaaataaac cctggtcaga ygcttgaggt cagcctccct c 41

<210> 4860

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4860

aagggtgttc tgggctcccc rtaagtgttt gttgggtgca t

41

<210> 4861

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4861

cagcttctaa aggagcccct matctctcct gtctyccaca g

41

<210> 4862

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4862

gcccctmatc tctctgtct yccacagggc ctccaggata g

41

<210> 4863

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4863

ggaggtcaga gacctcaact rccaggtaga ggcacgcctg g

41

<210> 4864

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4864

gaaataaaag ggtgggccca mcttgcaggc cctctgcccc c

41

<210> 4865

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4865

amcttgcagg ccctctgccc scaaggacag agtccagtcc a

41

<210> 4866

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4866

gacccccagg tccaagaagc yacagtgtcc atgccccgct c

41

<210> 4867

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4867

caggaggaca ggccgccct ygccctctgt actcacattc t

41

<210> 4868

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4868

cacagaaagg tcacctccct mcctgtgctc aggtggcagc c

41

<210> 4869

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4869

gcacctgccg acctggccat yggggaataa tttaaagtaa c

41

<210> 4870

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4870

tggggcggtg cagcagttta mgacgctgat ccggttaatta t

41

<210> 4871

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4871

gaaaaaaaca gcatccagca rggcgttggt ggcttatgcc t

41

<210> 4872

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4872

ttctcttttc ctttccctta ytttttaggt tactcagaga g

41

<210> 4873

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4873

aggaagcaga gggtcagaga rgctacgtgg ctctccaagg c

41

<210> 4874

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4874

cttttaaacg ttataataa yggcagtga ggtgctggct t 41

<210> 4875

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4875

gcctccttct tcagcaatgc yctctacaac tccttctacc t 41

<210> 4876

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4876

tgctttcatc tggagatgga yacttatcac ttagatccaa c 41

<210> 4877

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4877

tctcttagaa atggataaga ngacagagtc tcacgctgtg g 41

<210> 4878



<211> 41

<212> DNA

<213> Homo sapiens

<400> 4878

tttatctttc ccatttttt nctgtataat ttgggtctt t 41

<210> 4879

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4879

tcagagcaca gaggttttt natagaactc tctccgtcc a 41

<210> 4880

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4880

tggctttact gtcctattt ntgagagact tgggcaatat g 41

<210> 4881

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4881

tttcctttcc cttayttttt naggttactc agagagggca a 41

<210> 4882

<211> 40

<212> DNA

<213> Homo sapiens

<400> 4882

tttcctttcc cttayttttt aggttactca gagagggcaa 40

<210> 4883

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4883

ggcaggggtg agagcaagtg naccaccag ggtgggggta a 41

<210> 4884

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4884

tcctggggac agtgaggaca ntgaccctac agatgctcag c 41

<210> 4885

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4885

aactcagatt ctcggcacct ycagcagctg gcttcgccaa c

41

<210> 4886

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4886

ctgaaattat atgcaaattc ygtagcttta taggaagcag a

41

<210> 4887

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4887

ttgtgtagga agctgataca ktaatttgac atatgagatg t

41

<210> 4888

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4888

ccaagaaact tcagctttct yttcacttaa atataggaaa c

41

<210> 4889

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4889

atatccagaa acagatggta ygtgcagaac aggttgtaca g 41

<210> 4890

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4890

tggatgatta gactgactct sagaatattg ataagccatt t 41

<210> 4891

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4891

ttgtctggg ttggtgggg ngagactggg tctgactctc a 41

<210> 4892

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4892

tacatttgtc aaaatttata ngcagataat catttcatct c

41

<210> 4893

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4893

taaattcaca tgattctgta naggatcctc ctgactggca g

41

<210> 4894

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4894

tctttcaaac ttatatttgc ncatagtttc atgtttgatg a

41

<210> 4895

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4895

ttgctctgtt tcaaattctt nattcatggg ccagcagctc g

41

<210> 4896

<211> 40

<212> DNA

<213> Homo sapiens

<400> 4896

ttgctctgtt tcaaattctt attcatgggc cagcagctcg 40

<210> 4897

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4897

agtgtagatg gacctcgggg nctagttaag gaaaagtaat a 41

<210> 4898

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4898

ttccaatttt ccattgttac ncttgccaga ttactcctga a 41

<210> 4899

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4899

tcctctgcat ttggcttct nattgtcat ttcaaatta a 41

<210> 4900

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4900

tttttggtt tctttcttc naatcttga ggaatcttt t 41

<210> 4901

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4901

gattagaaat ccaggtaaa ngtttgcac aaaaatatta c 41

<210> 4902

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4902

taaaatttaa tcaaattga nctcttagtc ctcaaaccct t 41

<210> 4903

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4903

gccagcccca tcgggggtcc ycggccggg aagcggaat a

41

<210> 4904

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4904

gcacgagact gaccgggccc stgcgggagt tactgcgcat g

41

<210> 4905

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4905

tgactttaac cgaccacctc yctctcttct cgggcagaaa a

41

<210> 4906

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4906

agtgtgccct catccctgct mcatggggac caagctgtag t

41

<210> 4907



<211> 41

<212> DNA

<213> Homo sapiens

<400> 4907

acagagcgag actccgtctc ngaaaaaaaa aaaaaacatt t

41

<210> 4908

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4908

cgtctcaaaa aaaaaaaaaag ncatttcac agacctgtct t

41

<210> 4909

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4909

tcagccggcc ccgagagtga ngctttcctt cccagaagtc t

41

<210> 4910

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4910

attaattga tcaattgtct naatatgtcg tactctagat t 41

<210> 4911

<211> 40

<212> DNA

<213> Homo sapiens

<400> 4911

attaattga tcaattgtct aatatgtcg actctagatt 40

<210> 4912

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4912

gcagctcgga ctcagctccc rgagcaaccc agctgcggag g 41

<210> 4913

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4913

gaaggcctca gccccagcc rctgggctgg gcctggccca a 41

<210> 4914

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4914

caatagaaca accttttctc rggctcatgc cgcctgacc c 41

<210> 4915

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4915

ttctctggct tccccactc mggtctccag cctgcctgct c 41

<210> 4916

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4916

gagacttccc atgataacct yccagggctt ccccccaaa c 41

<210> 4917

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4917

gaaccagatg cccccagcct ygactcagtc ccagtctcca c 41

<210> 4918

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4918

ggaagatggg ggcctttgtt ngtaacatgga gaaattaact g 41

<210> 4919

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4919

aataggttga ggaggagcag ntcaagagtg tggagggggc a 41

<210> 4920

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4920

ttgacctcca aaagtgttg rattacaggc atgggccatt g 41

<210> 4921

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4921

ccacatccat cattcgagac mmactcgtct cagctgccat g

41

<210> 4922

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4922

cacatccatc attcgagacm mactcgtctc agctgccatg a

41

<210> 4923

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4923

actagactgc tagtgtctc yggtagagccc agtcccatag g

41

<210> 4924

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4924

ataaatgtgt acatgagtgt rtgaacacaa atacataagg t

41

<210> 4925

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4925

tgtagcagcc cacatcgcca rtgtcacac ctgagagaga g 41

<210> 4926

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4926

ttctgagag gcaaatcccc ytcccctact cgggaggtgc c 41

<210> 4927

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4927

cctgcccaca gctctggctc rtctgcccc agtgccatga c 41

<210> 4928

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4928

cctgtccacc actgtgccc rccccacaat gcctccacag g 41

<210> 4929

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4929

gcaccaagac ccttggttc ytccactca ggtccaagc a 41

<210> 4930

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4930

gctcatctc tctggtcctt ktgccccagc acaggttcct c 41

<210> 4931

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4931

tctgtccac ccgtgcaccc scaagaggc aaagagctgg g 41

<210> 4932

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4932

tggcgttggc tgcagttaac wgtgtccatt cccttcttcg t 41

<210> 4933

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4933

tcgaagtaca aaggaaagtt yaaagagaag cctgagcctg g 41

<210> 4934

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4934

gaccaatggg ttccagactc raagacaaaa attatgttta t 41

<210> 4935

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4935

attgtcctgt cctctacca rgggagccat cctttatgaa c 41

<210> 4936



<211> 41

<212> DNA

<213> Homo sapiens

<400> 4936

tacatttggt cccagggggg naagcggctg atcaggagag a

41

<210> 4937

<211> 40

<212> DNA

<213> Homo sapiens

<400> 4937

tacatttggt cccagggggg aagcggctga tcaggagaga

40

<210> 4938

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4938

tctgacttgg actgggcaaa ngtatggtgg tatctggata g

41

<210> 4939

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4939

acagagtaga tgttcaataa rtattgttg tatctgtgag a 41

<210> 4940

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4940

tagtgcagcg actatgcctt ratgtgttg tgtttgggat t 41

<210> 4941

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4941

aaatgtgtgc ctgtatgta yacatctga catatatttc c 41

<210> 4942

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4942

acaaacacaa ctcaaagtat rtgtgttatt aaaagtagct a 41

<210> 4943

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4943

ttgattcagg caagttagtc staaatggct ttgagagact t 41

<210> 4944

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4944

caacataaca ataatttcct rtaagaaaaa tggccatttt g 41

<210> 4945

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4945

gtttagcaag gttagatatt ratgtggatg ttaagacaaa a 41

<210> 4946

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4946

ttgctagaag ctagtaggac yagctttata aatacagaga t 41

<210> 4947

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4947

aactagttag gcaacccatg ygttttaggg raaaagcaat g 41

<210> 4948

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4948

gcaacccatg ygttttaggg raaaagcaat gaggtcatga t 41

<210> 4949

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4949

atagtttgct cttagaata yactctgaga aggtttatag t 41

<210> 4950

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4950

ttatgctccc gaggagttag ytctctaaat gcataaggag a

41

<210> 4951

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4951

aaagactggg agcacttccc ratgacaaat actagactag a

41

<210> 4952

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4952

aaaaagttat atagaaatat ragtgcact cctttctagt t

41

<210> 4953

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4953

gtctactagt gttcaactcc yttagatctt agcctgtatc a

41

<210> 4954

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4954

aaagcctaag aaggatgcag ygcaatagcc tatgtgagaa g 41

<210> 4955

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4955

tatggtttgc aaaaaactta ytcgtatatt tgttttttc a 41

<210> 4956

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4956

caggaaatga agttgcactt ycctctctag gagcaatgct t 41

<210> 4957

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4957

tcagttttgt caatttacac ratggggatt tgggacctt t 41

<210> 4958

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4958

aatgaataga ctttgagtta ytggtttt agtggataaa t 41

<210> 4959

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4959

tgaatgtcac atttttaaa rttgtgttc cttatctcat a 41

<210> 4960

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4960

ttttattctg gattcatgtt ygtggaaatt gcagtagtcc a 41

<210> 4961

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4961

tccacaatga tgagtagagt rtcttggcac agttggcctt c

41

<210> 4962

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4962

agtgtctgaa ttataagcca rttttatagt tggttgggac c

41

<210> 4963

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4963

aaagtgaaag gaaattaaaa stgagaactt gagcctgaat g

41

<210> 4964

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4964

tagaatgtac caaatgaatc rgcatctctg aggatgggac c

41

<210> 4965



<211> 41

<212> DNA

<213> Homo sapiens

<400> 4965

tgaaatcttc ttatcaact ygatttcct ccagactta c

41

<210> 4966

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4966

gcaaactcct aagttgaagt sttttaggat atttttgac t

41

<210> 4967

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4967

tcatatatttg tattttaag rtatctggg tttactgaa a

41

<210> 4968

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4968

tattcttctg agataaatca ytgaaggagt ggctatgtgg t 41

<210> 4969

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4969

ttcactccta ttctcgcta yttttcttc ttattctta g 41

<210> 4970

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4970

ttcttctct ttggagctc waaagtagag ttcagttaat c 41

<210> 4971

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4971

atcatcactg catgagagtt rgaattatct aactttgtga t 41

<210> 4972

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4972

tttcttttat ttacaaactt rtttactttt caggtgtatg a

41

<210> 4973

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4973

ctatcagaac aatattatta ktattatttt ttattacact t

41

<210> 4974

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4974

tatgttttga taaactttgc mgtacaaata aagaaaattg a

41

<210> 4975

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4975

tacaaataaa gaaaattgaa rtatttccaa ataaatcaag t

41

<210> 4976

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4976

tctctggctc ccaaaatcat rtattttctc cctctttama t

41

<210> 4977

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4977

atrtatttct tcctcttcta mattttgctg aaacaatctt c

41

<210> 4978

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4978

gtctttaaga acctaataaa mctcttaact caaaataata a

41

<210> 4979

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4979

agtgactaaa gttttctta maaacaagtg tctgaatcaa a

41

<210> 4980

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4980

aatacactat gggtatttat rtgtactata aatggagtga g

41

<210> 4981

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4981

atttcctaaa tgatcagatg yatcatatga aaaaagaaag c

41

<210> 4982

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4982

aggtgactga cataaatggg rgcagaggac ataatgaggt t

41

<210> 4983

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4983

attttctaatt ctgtattataaa ngcggtccag gtattttgt a

41

<210> 4984

<211> 40

<212> DNA

<213> Homo sapiens

<400> 4984

attttctaatt ctgtattataaa gcgttccagg tatttttgta

40

<210> 4985

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4985

tgatctttaa tagcggggaa ncaggcaagt acgctatagt t

41

<210> 4986

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4986

attgagtcag gaaaccaaaa ngtttcaaaa atttgaaaaa t

41

<210> 4987

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4987

aatgtcatgt ctttttttt naatgcagag tgtacaaagg a 41

<210> 4988

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4988

attgtatgtg catgtgggtg ncatgattgt ctttgtgata t 41

<210> 4989

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4989

ggataaggca acccctatgt rtcactgctg caggagaggg a 41

<210> 4990

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4990

tctttcagac ttcaaaggcc rtgatatttc atcagagctg t

41

<210> 4991

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4991

tgcttattta acaggcataa kctttgtct cctgagccag a

41

<210> 4992

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4992

tatgtgcata tgtgtataca rgtaaaagtg tgtatatatg t

41

<210> 4993

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4993

aatcatttga aatttaagaa raaaatatgt tcagagaaaa a

41

<210> 4994



<211> 41

<212> DNA

<213> Homo sapiens

<400> 4994

gtgaaatgag gaacaaagtg yccacctttt ttcctgaat a 41

<210> 4995

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4995

agagagatgt gaaatagtat ktttctgggg aagtagggga a 41

<210> 4996

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4996

ttgttagtag aaagaaaatc raagcctaaa actaaaggaa g 41

<210> 4997

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4997

ttgctattat ataattttt wwaaaaaaga ttcctaata t 41

<210> 4998

<211> 40

<212> DNA

<213> Homo sapiens

<400> 4998

tgctattata taatttttw waaaaaagat ttcctaatat 40

<210> 4999

<211> 41

<212> DNA

<213> Homo sapiens

<400> 4999

ggaaaaaatg gggtgaaatt watcaaaggg cagcttatta c 41

<210> 5000

<211> 41

<212> DNA

<213> Homo sapiens

<400> 5000

acattatatt ctatataaaa kagtcagttg aagtaaaaag t 41

<210> 5001

<211> 41

<212> DNA

<213> Homo sapiens

<400> 5001

tgattaagta tttctttggc raaatttttg atgcttaata g

41

<210> 5002

<211> 41

<212> DNA

<213> Homo sapiens

<400> 5002

ttgagtaaca tttaggcaa rtggcagtca taaggaaaaa g

41

<210> 5003

<211> 41

<212> DNA

<213> Homo sapiens

<400> 5003

agaggaatta atcataagag ktttatttgg ctaaagtgac a

41

<210> 5004

<211> 41

<212> DNA

<213> Homo sapiens

<400> 5004

gttagttaat aacagaaaaa wtatcagaaa ttttaaaaaa t

41

<210> 5005

<211> 41

<212> DNA

<213> Homo sapiens

<400> 5005

ttctaaaata agtaagctaa wtattctata ttatactact a 41

<210> 5006

<211> 41

<212> DNA

<213> Homo sapiens

<400> 5006

ttgtataaga gatacaaaac maattcctac taggggaaat a 41

<210> 5007

<211> 41

<212> DNA

<213> Homo sapiens

<400> 5007

ctaggggaaa taaagcttca staaggaggt ggcattaagc t 41

<210> 5008

<211> 41

<212> DNA

<213> Homo sapiens

<400> 5008

ttcaaaagct gtatttctca ytagtgcttt ttgtgaataa a

41

<210> 5009

<211> 41

<212> DNA

<213> Homo sapiens

<400> 5009

tatatacaca atacctgtcc rgaagatgtg gtataagcca a

41

<210> 5010

<211> 41

<212> DNA

<213> Homo sapiens

<400> 5010

tatcaatact tatgaagaga rctaactatt ctaactaggg a

41

<210> 5011

<211> 41

<212> DNA

<213> Homo sapiens

<400> 5011

ttccccacct cctgttggt stcctcttaa acttctcctt g

41

<210> 5012

<211> 41

<212> DNA

<213> Homo sapiens

<400> 5012

cctatctgca cataacatta yaaacttatg gcaattatar a 41

<210> 5013

<211> 41

<212> DNA

<213> Homo sapiens

<400> 5013

ayaaacttat ggcaattata raactcaata catattatac t 41

<210> 5014

<211> 41

<212> DNA

<213> Homo sapiens

<400> 5014

gcccttggtc ctgttcctct rtacctgcct caactacata g 41

<210> 5015

<211> 41

<212> DNA

<213> Homo sapiens

<400> 5015

ctggagacgg tagtcaaac ygaggatgaa aatagacatt t 41

<210> 5016

<211> 41

<212> DNA

<213> Homo sapiens

<400> 5016

ggttatcaac tggggtaaat ktatctctca caggcaattt g 41

<210> 5017

<211> 41

<212> DNA

<213> Homo sapiens

<400> 5017

tgctaaatat tctataatgc rcaaagaatg atgtaactga a 41

<210> 5018

<211> 41

<212> DNA

<213> Homo sapiens

<400> 5018

ccctttaaag aggcagttac mtttgagaa gatacccact a 41

<210> 5019

<211> 41

<212> DNA

<213> Homo sapiens

<400> 5019

ttcatgatcc aaattgtggc racgtatttc caggcaacaa g 41

<210> 5020

<211> 41

<212> DNA

<213> Homo sapiens

<400> 5020

aggcaacaag atagaagaag raaagaataa gaagcaacaa a 41

<210> 5021

<211> 41

<212> DNA

<213> Homo sapiens

<400> 5021

aaaatagaca ttattccaag wtaccaagtt cccggtaaa a 41

<210> 5022

<211> 41

<212> DNA

<213> Homo sapiens

<400> 5022

ttcccggta aaaatcccaa stataattac tgtggaagga a 41

<210> 5023



<211> 41

<212> DNA

<213> Homo sapiens

<400> 5023

aaggaccaca atctagatca kcattgctct aaatatgcca t

41

<210> 5024

<211> 41

<212> DNA

<213> Homo sapiens

<400> 5024

tatgccataa tatgtgacac yttgacacct ggtatttcta c

41

<210> 5025

<211> 41

<212> DNA

<213> Homo sapiens

<400> 5025

catctagttg aaatggatta sattttattt ttactacatt t

41

<210> 5026

<211> 41

<212> DNA

<213> Homo sapiens

<400> 5026

attctaaaga aactaatatc rattcatcag aaaattcaac a 41

<210> 5027

<211> 41

<212> DNA

<213> Homo sapiens

<400> 5027

taatcaaatt ttatcactca rtagagcatc acctgagata g 41

<210> 5028

<211> 41

<212> DNA

<213> Homo sapiens

<400> 5028

ttaatataca cagttcgccc wttaacaaca caggtttaa c 41

<210> 5029

<211> 41

<212> DNA

<213> Homo sapiens

<400> 5029

acaacacagg tttaaactac rcrttttcac ttctatgcaa a 41

<210> 5030

<211> 41

<212> DNA

<213> Homo sapiens

<400> 5030

aacacagggt taaactacrc rtttcactt ctatgcaa t

41

<210> 5031

<211> 41

<212> DNA

<213> Homo sapiens

<400> 5031

atataacttt gctttcattg yaaaaggcaa actrttatat c

41

<210> 5032

<211> 41

<212> DNA

<213> Homo sapiens

<400> 5032

ttcattgyaa aaggcaaact rttatatcat ttaaagactt t

41

<210> 5033

<211> 41

<212> DNA

<213> Homo sapiens

<400> 5033

agtcatgata aacctaatag rataaaacaa caaaaaagaa a

41

<210> 5034

<211> 41

<212> DNA

<213> Homo sapiens

<400> 5034

acagataatt ttacttggt ygtgcttttc tgtatgatat g

41

<210> 5035

<211> 41

<212> DNA

<213> Homo sapiens

<400> 5035

ccttgattgt aataatctcc mcmgtccaag agtggggcca g

41

<210> 5036

<211> 41

<212> DNA

<213> Homo sapiens

<400> 5036

ttgattgtaa taatctccmc mtgccaagag tggggccagg t

41

<210> 5037

<211> 41

<212> DNA

<213> Homo sapiens

<400> 5037

actgttctcg tggtaatgaa kaagtctcac aagatctgat g 41

<210> 5038

<211> 41

<212> DNA

<213> Homo sapiens

<400> 5038

ttataaatga gagttcccct rcaaaagctc tcttgccctgc c 41

<210> 5039

<211> 41

<212> DNA

<213> Homo sapiens

<400> 5039

ttgctcttcc ttcattctcc rccatgattg tgaggccccc c 41

<210> 5040

<211> 41

<212> DNA

<213> Homo sapiens

<400> 5040

gtcatacatg tggatatatg ygttcatggg taatatgctt c 41

<210> 5041

<211> 41

<212> DNA

<213> Homo sapiens

<400> 5041

gggagactcc catagtacca ytggggcttt ctacattga t 41

<210> 5042

<211> 41

<212> DNA

<213> Homo sapiens

<400> 5042

ctttcttaca ttgatgattt ygctaaagaa ggacattctt c 41

<210> 5043

<211> 41

<212> DNA

<213> Homo sapiens

<400> 5043

agaacaaggt accatgataa ygtctttcta agcacacatg c 41

<210> 5044

<211> 41

<212> DNA

<213> Homo sapiens

<400> 5044

caaaataacc aaatgtaaaa wgtctccctc ccaaactgac t 41

<210> 5045

<211> 41

<212> DNA

<213> Homo sapiens

<400> 5045

gtaatctcac atttctctgc rtttacactt ggtaaaactt t 41

<210> 5046

<211> 41

<212> DNA

<213> Homo sapiens

<400> 5046

ttctcacgtc ctatctagcg ygattatgac ccttagttac t 41

<210> 5047

<211> 41

<212> DNA

<213> Homo sapiens

<400> 5047

gtggaagaga attaggttg yacttttag caggagaaa c 41

<210> 5048

<211> 41

<212> DNA

<213> Homo sapiens

<400> 5048

tcgggagaag ttctcccta ygttaattaga gtaatattm t

41

<210> 5049

<211> 41

<212> DNA

<213> Homo sapiens

<400> 5049

aygtaattag agtaatat ttmttggtaa ttatctatct a

41

<210> 5050

<211> 41

<212> DNA

<213> Homo sapiens

<400> 5050

taagtaatgt aaattaggat kcatcagcat ttgacagtgc c

41

<210> 5051

<211> 41

<212> DNA

<213> Homo sapiens

<400> 5051

tggagaacca ttgagagtca rtaacaaag agaatgactt g

41

<210> 5052



<211> 41

<212> DNA

<213> Homo sapiens

<400> 5052

at tttagtaa tacaggataa stataattt cttgtattct t

41

<210> 5053

<211> 41

<212> DNA

<213> Homo sapiens

<400> 5053

ttagaggtag tatctgtata rtggatctt ataatttagt g

41

<210> 5054

<211> 41

<212> DNA

<213> Homo sapiens

<400> 5054

tgctaagatc tgagacaaac sc tt ttgtaa ttataatcat t

41

<210> 5055

<211> 41

<212> DNA

<213> Homo sapiens

<400> 5055

tacacttggt ccataaaaaa ytcctctata ttattcctag t 41

<210> 5056

<211> 41

<212> DNA

<213> Homo sapiens

<400> 5056

attaatagat tcaacgtgag sttccttaa actttagcct a 41

<210> 5057

<211> 41

<212> DNA

<213> Homo sapiens

<400> 5057

cttatataga aagaaatcca saaaactatt ttaccttta t 41

<210> 5058

<211> 41

<212> DNA

<213> Homo sapiens

<400> 5058

aatatattag ttgaacaag ygagacttca ctaaataaa t 41

<210> 5059

<211> 41

<212> DNA

<213> Homo sapiens

<400> 5059

gagacttcac taaatataat rcaatgtatt tgcagcactg t

41

<210> 5060

<211> 41

<212> DNA

<213> Homo sapiens

<400> 5060

aacattccaa aacttttaat ygaytmacag catgactttt a

41

<210> 5061

<211> 41

<212> DNA

<213> Homo sapiens

<400> 5061

attccaaaac tttaatyga ytmacagcat gacttttata a

41

<210> 5062

<211> 41

<212> DNA

<213> Homo sapiens

<400> 5062

tccaaaactt ttaatygayt macagcatga cttttataat a

41

<210> 5063

<211> 41

<212> DNA

<213> Homo sapiens

<400> 5063

aatgaaaaga agctggcaga ytgaacata ctgaatgaga g

41

<210> 5064

<211> 41

<212> DNA

<213> Homo sapiens

<400> 5064

tatatatata tatatatata yacacacaca tacatatatt a

41

<210> 5065

<211> 41

<212> DNA

<213> Homo sapiens

<400> 5065

aattctgagt atcctatttc ratgtatcca atctgtggca c

41

<210> 5066

<211> 41

<212> DNA

<213> Homo sapiens

<400> 5066

taaaaaaaaaaaa aaagtctgc ytttacagca attgagccaa g

41

<210> 5067

<211> 41

<212> DNA

<213> Homo sapiens

<400> 5067

aacgaatcct ccaaattttt saacttttat ttaatcaaaa t

41

<210> 5068

<211> 41

<212> DNA

<213> Homo sapiens

<400> 5068

tcaaggataa taaccaactt rtcaaaaatc agagataata g

41

<210> 5069

<211> 41

<212> DNA

<213> Homo sapiens

<400> 5069

atttgtttac taatatggaa sc ttcttcaa gacatatttt t

41

<210> 5070

<211> 41

<212> DNA

<213> Homo sapiens

<400> 5070

tcatcatgta ttccaggac wcctggcaag atgctcctca g

41

<210> 5071

<211> 41

<212> DNA

<213> Homo sapiens

<400> 5071

atctccagag gtcctgctgt ytcccaaag tccactgacc c

41

<210> 5072

<211> 41

<212> DNA

<213> Homo sapiens

<400> 5072

ataataaac aaactgtagg yagaaaaaat gagagtactc a

41

<210> 5073

<211> 41

<212> DNA

<213> Homo sapiens

<400> 5073

tcttaataaa acaaatgagt rtcatacagg tagaggtaa a

41

<210> 5074

<211> 41

<212> DNA

<213> Homo sapiens

<400> 5074

cagagttga actataatac kaaggcctga agtctagctt g 41

<210> 5075

<211> 41

<212> DNA

<213> Homo sapiens

<400> 5075

gcctgaagtc tagcttgat rtatgctaca ataatatctg t 41

<210> 5076

<211> 41

<212> DNA

<213> Homo sapiens

<400> 5076

taattggcaa acataaaaaa ncaggtgtct caaagtcaca t 41

<210> 5077

<211> 40

<212> DNA

<213> Homo sapiens

<400> 5077

taattggcaa acataaaaaa caggtgtctc aaagtcacat 40

<210> 5078

<211> 41

<212> DNA

<213> Homo sapiens

<400> 5078

gacagcatt acaaccaaga natggagaat gacattcagg a 41

<210> 5079

<211> 40

<212> DNA

<213> Homo sapiens

<400> 5079

gacagcatt acaaccaaga atggagaatg acattcagga 40

<210> 5080

<211> 41

<212> DNA

<213> Homo sapiens

<400> 5080

tgtgtgattc tatattactt ngtttcaaatttctctccac a 41

<210> 5081



<211> 41

<212> DNA

<213> Homo sapiens

<400> 5081

ttcaaatttc tctccacaaa nttttctat taaattgtaa t 41

<210> 5082

<211> 41

<212> DNA

<213> Homo sapiens

<400> 5082

acttatttaa aaattctttt ncaaaaaaca ggatttaaaa a 41

<210> 5083

<211> 41

<212> DNA

<213> Homo sapiens

<400> 5083

ttgccaagta attcaagtgc ngattttaa acaacttttc a 41

<210> 5084

<211> 41

<212> DNA

<213> Homo sapiens

<400> 5084

ttcatgggat agtaagtgtt ncctctgtgc cactatcagt a 41

<210> 5085

<211> 41

<212> DNA

<213> Homo sapiens

<400> 5085

gtgaatataa attacttgta naattaaaaa aaaataagta g 41

<210> 5086

<211> 41

<212> DNA

<213> Homo sapiens

<400> 5086

attacttgta cttgtaaatt ntaagtagaa taattaagag t 41

<210> 5087

<211> 41

<212> DNA

<213> Homo sapiens

<400> 5087

ttctctaact ccttctactc natttcaagc agatgcaact g 41

<210> 5088

<211> 41

<212> DNA

<213> Homo sapiens

<400> 5088

aaattcttta tctacttttt ntccctctt tctctgcttt c

41

<210> 5089

<211> 40

<212> DNA

<213> Homo sapiens

<400> 5089

aaattcttta tctacttttt ttccctctt ctctgctttc

40

<210> 5090

<211> 41

<212> DNA

<213> Homo sapiens

<400> 5090

aacaagygag acttcactaa ntataatrca atgtatttgc a

41

<210> 5091

<211> 41

<212> DNA

<213> Homo sapiens

<400> 5091

agcatgacat ggtagagatg ngcattttta acatttgta a

41

<210> 5092

<211> 41

<212> DNA

<213> Homo sapiens

<400> 5092

tccatcttaa tataaaatgt nctactcaaa aggagaagtc t 41

<210> 5093

<211> 41

<212> DNA

<213> Homo sapiens

<400> 5093

tacgagcact aggtatgatg ntatatatat atatatatat a 41

<210> 5094

<211> 41

<212> DNA

<213> Homo sapiens

<400> 5094

aaaaaaaaa aaaaaaaaaa nyacacacac atacatatat t 41

<210> 5095

<211> 41

<212> DNA

<213> Homo sapiens

<400> 5095

aaaattattc accacaatac ncaaagtaaa gttatgaaca c

41

<210> 5096

<211> 41

<212> DNA

<213> Homo sapiens

<400> 5096

aattctctta aaataatgtt ngctgcytt tacagcaatt g

41

<210> 5097

<211> 41

<212> DNA

<213> Homo sapiens

<400> 5097

caattatact ttacctcttt nctaatttca aattcatata t

41

<210> 5098

<211> 41

<212> DNA

<213> Homo sapiens

<400> 5098

aataggggct taataactct saaacttatg atttctcata t

41

<210> 5099

<211> 41

<212> DNA

<213> Homo sapiens

<400> 5099

atgaaattag tttaaaaata rcaaccttaa ctatactcct c 41

<210> 5100

<211> 41

<212> DNA

<213> Homo sapiens

<400> 5100

acagacttac caacaaagaa ktatccttcc caaaatgtct a 41

<210> 5101

<211> 41

<212> DNA

<213> Homo sapiens

<400> 5101

actcatgggt tgcaaattaa sttttagga aactttatct c 41

<210> 5102

<211> 41

<212> DNA

<213> Homo sapiens

<400> 5102

ccattctggt getttcttc rtgaaactat ttccatcag t 41

<210> 5103

<211> 41

<212> DNA

<213> Homo sapiens

<400> 5103

ctcttattgc tcttctcca ygtttaatc taaataattt a

41

<210> 5104

<211> 41

<212> DNA

<213> Homo sapiens

<400> 5104

caggaaactt tcacaaagcc mctaattaat ttaagctccc t

41

<210> 5105

<211> 41

<212> DNA

<213> Homo sapiens

<400> 5105

tggtttaatg taggagagtt yaccttcaca gttaaattac a

41

<210> 5106

<211> 41

<212> DNA

<213> Homo sapiens

<400> 5106

aatgtcttgg gcatatttgc rttcatttgg ggcaytcagt t 41

<210> 5107

<211> 41

<212> DNA

<213> Homo sapiens

<400> 5107

atttgcrttc atttggggca ytcagttcta ctagatacaa a 41

<210> 5108

<211> 41

<212> DNA

<213> Homo sapiens

<400> 5108

gaactggaag tattttgaca kctttaccac atttcttcat g 41

<210> 5109

<211> 41

<212> DNA

<213> Homo sapiens

<400> 5109

agaattttat ttttatactt rtaagtgggc agttaccttt t 41

<210> 5110



<211> 41

<212> DNA

<213> Homo sapiens

<400> 5110

tcaatttcac gttgctctta yagttatagg tattctaaag a 41

<210> 5111

<211> 41

<212> DNA

<213> Homo sapiens

<400> 5111

taatcacgac tataaagttt stgatattct ttaacaaaat t 41

<210> 5112

<211> 41

<212> DNA

<213> Homo sapiens

<400> 5112

tattctttaa caaaattgat wtaagaacaa ataggaagaa c 41

<210> 5113

<211> 41

<212> DNA

<213> Homo sapiens

<400> 5113

ggtttgaact gcacctgttc rcttatatgc agcttttgc c 41

<210> 5114

<211> 41

<212> DNA

<213> Homo sapiens

<400> 5114

ttaacagaa taataaaaaa wattttgtaa cgacaaaaga a 41

<210> 5115

<211> 41

<212> DNA

<213> Homo sapiens

<400> 5115

atatgcacct taataataac stggattttt aaatatgtaa t 41

<210> 5116

<211> 41

<212> DNA

<213> Homo sapiens

<400> 5116

taaatatgta atgtacataa kgaatattat gcatattttg t 41

<210> 5117

<211> 41

<212> DNA

<213> Homo sapiens

<400> 5117

cattaataat cagaataaaa ragaaattta gctcctattt a

41

<210> 5118

<211> 41

<212> DNA

<213> Homo sapiens

<400> 5118

atccaactgg ggtttagatt kcctctttct gcctctctc c

41

<210> 5119

<211> 41

<212> DNA

<213> Homo sapiens

<400> 5119

gcctctctc catctgcacc ytctctttc ctcagcaaac a

41

<210> 5120

<211> 41

<212> DNA

<213> Homo sapiens

<400> 5120

ctatgccctg taatctcaca yttcccttta tttaaaattg g

41

<210> 5121

<211> 41

<212> DNA

<213> Homo sapiens

<400> 5121

tcgtgtctgt gttagcatat rataactcat cagggtttgt g 41

<210> 5122

<211> 41

<212> DNA

<213> Homo sapiens

<400> 5122

ataacataaa tgagtaaaga rtatcaaggg caggaaatta g 41

<210> 5123

<211> 41

<212> DNA

<213> Homo sapiens

<400> 5123

actactctcc ccatacacac yaaaactcat gtgctcccca g 41

<210> 5124

<211> 41

<212> DNA

<213> Homo sapiens

<400> 5124

tcattctatgg aggactgcaa ycattatcat tatttcccag a

41

<210> 5125

<211> 41

<212> DNA

<213> Homo sapiens

<400> 5125

taacaaatga taccagccat satactattc tctggtaata g

41

<210> 5126

<211> 41

<212> DNA

<213> Homo sapiens

<400> 5126

cctttatttt ttgagaacct rgtggatgat attaagamgt a

41

<210> 5127

<211> 41

<212> DNA

<213> Homo sapiens

<400> 5127

cctrgtggat gatattaaga mgtatataga tcactgtaat a

41

<210> 5128

<211> 41

<212> DNA

<213> Homo sapiens

<400> 5128

aaaatttat atatacatat rtaatcttac ctaagtattc a 41

<210> 5129

<211> 41

<212> DNA

<213> Homo sapiens

<400> 5129

tgtttttta agggtagtga ygtgaatagt aaagcgaatt t 41

<210> 5130

<211> 41

<212> DNA

<213> Homo sapiens

<400> 5130

agttgagcaa attgctctca rgtagcataa tgcacttga a 41

<210> 5131

<211> 41

<212> DNA

<213> Homo sapiens

<400> 5131

gtttattgat ccatttttta rtggatcaac attgtagtga g 41

<210> 5132

<211> 41

<212> DNA

<213> Homo sapiens

<400> 5132

atttatttg agcaaaggc rcractctyc ttagaaagcc t 41

<210> 5133

<211> 41

<212> DNA

<213> Homo sapiens

<400> 5133

ttatttgag caaaggtrc ractctytta gaaagcctca c 41

<210> 5134

<211> 41

<212> DNA

<213> Homo sapiens

<400> 5134

tgagcaaagg tcractct yttagaaagc ctcacaaatc a 41

<210> 5135

<211> 41

<212> DNA

<213> Homo sapiens

<400> 5135

atttgtaact ttaagtctta kataacttat atttcaaaa t

41

<210> 5136

<211> 41

<212> DNA

<213> Homo sapiens

<400> 5136

cagatattaa tatatatttt wttattgaaa tatgttattt t

41

<210> 5137

<211> 41

<212> DNA

<213> Homo sapiens

<400> 5137

acaaaatttc tccatcttgt ratawcatcg ttgttctgca t

41

<210> 5138

<211> 41

<212> DNA

<213> Homo sapiens

<400> 5138

aatttctcca tcttgtrata wcatcggtgt tctgcatttg a

41

<210> 5139



<211> 41

<212> DNA

<213> Homo sapiens

<400> 5139

tttttttga gatggagtct ygctctgttg cccaggctgg g 41

<210> 5140

<211> 41

<212> DNA

<213> Homo sapiens

<400> 5140

aagctccgcc tcccaggttc kccacccttc tcttaaagaa a 41

<210> 5141

<211> 41

<212> DNA

<213> Homo sapiens

<400> 5141

tccttcttgt ttcaacttct rtatttcct ctaatctgcg a 41

<210> 5142

<211> 41

<212> DNA

<213> Homo sapiens

<400> 5142

tcacagattt gatttaataa wtacttatca aatcttccta t 41

<210> 5143

<211> 41

<212> DNA

<213> Homo sapiens

<400> 5143

cttgcccaat atcctaccaa ygtattatta aacggcatgg a 41

<210> 5144

<211> 41

<212> DNA

<213> Homo sapiens

<400> 5144

tcctagtttc ctggaagata rgctacaact ttagtaaact t 41

<210> 5145

<211> 41

<212> DNA

<213> Homo sapiens

<400> 5145

tccttggtcc tgtgtgtgcc wgyagtgaag acctgaaaga g 41

<210> 5146

<211> 41

<212> DNA

<213> Homo sapiens

<400> 5146

cctggctctg tgtgtccwg yagtgaagac ctgaaagaga g

41

<210> 5147

<211> 41

<212> DNA

<213> Homo sapiens

<400> 5147

cccatttca tgagtggcta rttttgtcc cgtttcaaac t

41

<210> 5148

<211> 41

<212> DNA

<213> Homo sapiens

<400> 5148

ccattttcat gagtggctar rttttgtccc gtttcaaact a

41

<210> 5149

<211> 41

<212> DNA

<213> Homo sapiens

<400> 5149

tgtatttggc aaatgtattt kttaatat t caaaaactat t

41

<210> 5150

<211> 41

<212> DNA

<213> Homo sapiens

<400> 5150

caacagagga tcaatgtaa kgaaatctct taaattaaac a 41

<210> 5151

<211> 41

<212> DNA

<213> Homo sapiens

<400> 5151

ataaatatta atgttaaata ytaaagactg aatgcaatta a 41

<210> 5152

<211> 41

<212> DNA

<213> Homo sapiens

<400> 5152

taaaatgaat cggtaaaaca ktcatgtata aatcactgtc a 41

<210> 5153

<211> 41

<212> DNA

<213> Homo sapiens

<400> 5153

ataggcatat aatactcttt mtccctctg tatataggga g 41

<210> 5154

<211> 41

<212> DNA

<213> Homo sapiens

<400> 5154

aacagctgtg gagcacaagg rgcttgtagg atatataatt c 41

<210> 5155

<211> 41

<212> DNA

<213> Homo sapiens

<400> 5155

tacataacat atacctatat ngttatgtgt ctgcttatat a 41

<210> 5156

<211> 41

<212> DNA

<213> Homo sapiens

<400> 5156

agcatcagca acaattaaaa ntagtttaat aatggaccaa c 41

<210> 5157

<211> 41

<212> DNA

<213> Homo sapiens

<400> 5157

tattcacttg gtatctgtag nataatggac caacatcaac a

41

<210> 5158

<211> 41

<212> DNA

<213> Homo sapiens

<400> 5158

ttercttata tgcagctttt ngccaacca aacagaagga g

41

<210> 5159

<211> 40

<212> DNA

<213> Homo sapiens

<400> 5159

ttercttata tgcagctttt gtccaaccaa acagaaggag

40

<210> 5160

<211> 41

<212> DNA

<213> Homo sapiens

<400> 5160

tataactttc tctttataaa natgcaaaat gttatagcat t

41

<210> 5161

<211> 41

<212> DNA

<213> Homo sapiens

<400> 5161

aatgaagtgg aggaaaaaa ntgattcaa gtttctgtc t 41

<210> 5162

<211> 41

<212> DNA

<213> Homo sapiens

<400> 5162

acatccatgt ttaacagaat nwatttgta acgacaaaag a 41

<210> 5163

<211> 41

<212> DNA

<213> Homo sapiens

<400> 5163

agattgttta accaaattag naaactatta ttcaacacac t 41

<210> 5164

<211> 41

<212> DNA

<213> Homo sapiens

<400> 5164

ttttatat gaattaaaat ncatatrtaa tcttacctaa g

41

<210> 5165

<211> 41

<212> DNA

<213> Homo sapiens

<400> 5165

attttctata ttatgaactg naagggtagt gaygtgaata g

41

<210> 5166

<211> 41

<212> DNA

<213> Homo sapiens

<400> 5166

tagtgtcca ccttctctc ngagatggag tctygctctg t

41

<210> 5167

<211> 41

<212> DNA

<213> Homo sapiens

<400> 5167

aactcaaagg cttttttt nccatgtgac acatcctg t

41

<210> 5168



<211> 41

<212> DNA

<213> Homo sapiens

<400> 5168

aaaaatctta aggcacacac ntgacagttg ccttgattgt a

41

<210> 5169

<211> 41

<212> DNA

<213> Homo sapiens

<400> 5169

aaataaattg ttggcatcta natttttcta agggtcgctg t

41

<210> 5170

<211> 41

<212> DNA

<213> Homo sapiens

<400> 5170

cctgatgcct ttaaaaaaaaa ntgaacact ttggatgtat t

41

<210> 5171

<211> 41

<212> DNA

<213> Homo sapiens

<400> 5171

agctaagagt caaagcacc scgttttcca ccagcctcgc g

41

<210> 5172

<211> 41

<212> DNA

<213> Homo sapiens

<400> 5172

ccaccagcct cgcgtgcctg ktccttcac ggacactcta g

41

<210> 5173

<211> 41

<212> DNA

<213> Homo sapiens

<400> 5173

ttgcaagcgc tggctgctac mggcgacctc cctgcgctcc c

41

<210> 5174

<211> 41

<212> DNA

<213> Homo sapiens

<400> 5174

gctttgcgcg cggcgctaac ktgtgtaggg cagatctgcc c

41

<210> 5175

<211> 41

<212> DNA

<213> Homo sapiens

<400> 5175

aaggaaactg aggccaagac yctaaatgct gaaactgcac a

41

<210> 5176

<211> 41

<212> DNA

<213> Homo sapiens

<400> 5176

ccctcacat ggtcacctg rtcacctgc ctctgcttt c

41

<210> 5177

<211> 41

<212> DNA

<213> Homo sapiens

<400> 5177

gtatttcttt agcatccaag kggcatagct gtgtctcttt c

41

<210> 5178

<211> 41

<212> DNA

<213> Homo sapiens

<400> 5178

atttcttag catccaaggg scatagctgt gtctctttct c

41

<210> 5179

<211> 41

<212> DNA

<213> Homo sapiens

<400> 5179

ttccttcagg ttaatgactg ygggtctttg tgtcccctcc a 41

<210> 5180

<211> 41

<212> DNA

<213> Homo sapiens

<400> 5180

gtctctgccc ttgtctttgc ygcttcttct atctctactc c 41

<210> 5181

<211> 41

<212> DNA

<213> Homo sapiens

<400> 5181

agegcacttt tcagctgcgg rtgtctcctc tttatcatc c 41

<210> 5182

<211> 41

<212> DNA

<213> Homo sapiens

<400> 5182

aactgcatca cctttccct yaagctttt aattcctatg a

41

<210> 5183

<211> 41

<212> DNA

<213> Homo sapiens

<400> 5183

cattcagga ggcccaggtc rtgtgacgtc gacagttgct g

41

<210> 5184

<211> 41

<212> DNA

<213> Homo sapiens

<400> 5184

tctccttgg caggtaggtg rtgggcagct ggtccattt g

41

<210> 5185

<211> 41

<212> DNA

<213> Homo sapiens

<400> 5185

cttcaccgt atgccaggac ytggggatgc tttctcttg t

41

<210> 5186

<211> 41

<212> DNA

<213> Homo sapiens

<400> 5186

gcagcagtgg tgctccctcc rtgggcagcc ccgtcaggtc c 41

<210> 5187

<211> 41

<212> DNA

<213> Homo sapiens

<400> 5187

atggtgccca ggtggatgtg ntccatctca ttcctgtctt t 41

<210> 5188

<211> 41

<212> DNA

<213> Homo sapiens

<400> 5188

agctgcagga ctggaattcc ygtggggatc gcacagtgct g 41

<210> 5189

<211> 41

<212> DNA

<213> Homo sapiens

<400> 5189

agggtgggtg gggtgggtg nggctgtctg tgtccaggaa a 41

<210> 5190

<211> 41

<212> DNA

<213> Homo sapiens

<400> 5190

aggcgagcca ggttatgtgg ygaaggataa ggcctcttcc c 41

<210> 5191

<211> 41

<212> DNA

<213> Homo sapiens

<400> 5191

gacaaaaggg gaaaaccttc ygtgataggc aggtttgtgg a 41

<210> 5192

<211> 41

<212> DNA

<213> Homo sapiens

<400> 5192

cactgtctcc cactgggccccc cccatgtcac tgtaaccac a 41

<210> 5193

<211> 41

<212> DNA

<213> Homo sapiens

<400> 5193

ccggtttcct aagaaaagcc ytttctaaag gaccctctt a

41

<210> 5194

<211> 41

<212> DNA

<213> Homo sapiens

<400> 5194

agctttccaa aaagacactt kcggcacat aactcccaa a

41

<210> 5195

<211> 41

<212> DNA

<213> Homo sapiens

<400> 5195

cttggggcaa acggccactg ygtgtgcatg gctcttcctg t

41

<210> 5196

<211> 41

<212> DNA

<213> Homo sapiens

<400> 5196

acataggaga cacttcttc rgatctcagt attcagaaca a

41

<210> 5197



<211> 41

<212> DNA

<213> Homo sapiens

<400> 5197

ctgtgcttct gcgaataagc rgactacttc ggatactgta a 41

<210> 5198

<211> 41

<212> DNA

<213> Homo sapiens

<400> 5198

agagccagtt ttggagcccc rtctggcaag caggcaggcc c 41

<210> 5199

<211> 41

<212> DNA

<213> Homo sapiens

<400> 5199

acctctgtct gctgcagaat raggtgtgat ataaatatgt g 41

<210> 5200

<211> 41

<212> DNA

<213> Homo sapiens

<400> 5200

atattccac aaggtccttg mgtacactgc tccatgctt t 41

<210> 5201

<211> 41

<212> DNA

<213> Homo sapiens

<400> 5201

cttctgtcaa gttgccagga yggaaatatt ccaactctac t 41

<210> 5202

<211> 41

<212> DNA

<213> Homo sapiens

<400> 5202

tcccttctct gcagggggaa rgagcggggc aagatttct t 41

<210> 5203

<211> 41

<212> DNA

<213> Homo sapiens

<400> 5203

aagccagaga agctctctcc rtgggaatgg gaacaaggtg g 41

<210> 5204

<211> 41

<212> DNA

<213> Homo sapiens

<400> 5204

ggagcctcca agcctcccct rtgtgagcgg gtgaggcagg g

41

<210> 5205

<211> 41

<212> DNA

<213> Homo sapiens

<400> 5205

tatgagactc gttgtgttgg rttctcaggt ctgaaagttt a

41

<210> 5206

<211> 41

<212> DNA

<213> Homo sapiens

<400> 5206

cctttcccct ttcttaagtg stgatagttt gaactctaac t

41

<210> 5207

<211> 41

<212> DNA

<213> Homo sapiens

<400> 5207

ttttggaac tcacaattta kactagacct catggttgcc c

41

<210> 5208

<211> 41

<212> DNA

<213> Homo sapiens

<400> 5208

cacctgtctg acgagatagc rcaggtcagg tgggctcact c 41

<210> 5209

<211> 41

<212> DNA

<213> Homo sapiens

<400> 5209

caacaacaac aacaacaaca nttgggagtg tctaacactt c 41

<210> 5210

<211> 41

<212> DNA

<213> Homo sapiens

<400> 5210

gttctgctca ttgctcatgc ncaaaaaaag aaactaaggc a 41

<210> 5211

<211> 41

<212> DNA

<213> Homo sapiens

<400> 5211

tgatcattcc tagaaaaag racactcaca ttggagagg a

41

<210> 5212

<211> 41

<212> DNA

<213> Homo sapiens

<400> 5212

tcctactcta tgatggcagc ngatgatcgt cagaactggt a

41

<210> 5213

<211> 41

<212> DNA

<213> Homo sapiens

<400> 5213

acacacacac acacgatgat mgtcagaact ggtagattta g

41

<210> 5214

<211> 41

<212> DNA

<213> Homo sapiens

<400> 5214

attattgata gtaatagaaa yacatatctt ttaataataa g

41

<210> 5215

<211> 41

<212> DNA

<213> Homo sapiens

<400> 5215

ggtcaggaac atggcgggtgg rggtcacatc cacggcctcc a

41

<210> 5216

<211> 41

<212> DNA

<213> Homo sapiens

<400> 5216

acacacacac ctgaaaacat rtatgaattc tcaggaaagg t

41

<210> 5217

<211> 41

<212> DNA

<213> Homo sapiens

<400> 5217

aagcaagatg aggatctgtt yttctcctgt gtgagtaaag c

41

<210> 5218

<211> 41

<212> DNA

<213> Homo sapiens

<400> 5218

gtgaacataa tacttagttg ngagtctcat agccctgtgg a

41

<210> 5219

<211> 41

<212> DNA

<213> Homo sapiens

<400> 5219

aaccaaata ttatatgcag wtttcctatc cagaaaacct t

41

<210> 5220

<211> 41

<212> DNA

<213> Homo sapiens

<400> 5220

cggcgctaga ggagcgagtt yggactcgga cccaaggcc t

41

<210> 5221

<211> 41

<212> DNA

<213> Homo sapiens

<400> 5221

gctggcagag gccgggcctc kccaggtccc caggacaggc c

41

<210> 5222

<211> 41

<212> DNA

<213> Homo sapiens

<400> 5222

ggcgccgctc tgcctgccag sggggcgcg cttgcggccc a

41

<210> 5223

<211> 41

<212> DNA

<213> Homo sapiens

<400> 5223

ggtggtcagt ctggcctccc rtctgatgg ccactttgaa g

41

<210> 5224

<211> 41

<212> DNA

<213> Homo sapiens

<400> 5224

atggccctgt gtgtccagga yttactctag ttggggttgg g

41

<210> 5225

<211> 41

<212> DNA

<213> Homo sapiens

<400> 5225

catgtgttac ctagcagcat rtctgactgt tgatacggtc a

41

<210> 5226



<211> 41

<212> DNA

<213> Homo sapiens

<400> 5226

gaagcttggc ctcacacaca saggccggca ccctgtcatc a

41

<210> 5227

<211> 41

<212> DNA

<213> Homo sapiens

<400> 5227

tagtaagaag agccaacaaa natctgactc cgtaattctt g

41

<210> 5228

<211> 41

<212> DNA

<213> Homo sapiens

<400> 5228

agcaggttat ttgtataatt mtaaagcttt taactcaagg a

41

<210> 5229

<211> 41

<212> DNA

<213> Homo sapiens

<400> 5229

taatttattg atatccaagt rccctctata atagatgctc a 41

<210> 5230

<211> 41

<212> DNA

<213> Homo sapiens

<400> 5230

caccagaaaag gggtcctgtg ygcaaaggctc aggcaggagt g 41

<210> 5231

<211> 41

<212> DNA

<213> Homo sapiens

<400> 5231

ttagcctcct ggttgtgtc naaaacagaa tcactctggc a 41

<210> 5232

<211> 41

<212> DNA

<213> Homo sapiens

<400> 5232

tagtctgac tcacacatgg ktctgtgctt ttcgtcctcc t 41

<210> 5233

<211> 41

<212> DNA

<213> Homo sapiens

<400> 5233

ggtggagaac atgaccagtt rgaattaact gcagaagctg c

41

<210> 5234

<211> 41

<212> DNA

<213> Homo sapiens

<400> 5234

gtggagtgt gtgaacaact stttaaaga gtgtggggag g

41

<210> 5235

<211> 41

<212> DNA

<213> Homo sapiens

<400> 5235

cgtgaactgg agagggtctg ygggcactgc ccggctgagc t

41

<210> 5236

<211> 41

<212> DNA

<213> Homo sapiens

<400> 5236

gcagatggta aaggagcaga ygcggaaagc gacggtcagg g

41

<210> 5237

<211> 41

<212> DNA

<213> Homo sapiens

<400> 5237

agcgtccagt ggtaggaaag kctccacagg tggcaatccc a

41

<210> 5238

<211> 41

<212> DNA

<213> Homo sapiens

<400> 5238

gtcatctctg ctcttctccc rcttcttcat ttttatagta c

41

<210> 5239

<211> 41

<212> DNA

<213> Homo sapiens

<400> 5239

cttctccac ttcttcattt ktatagtact attggtatta t

41

<210> 5240

<211> 41

<212> DNA

<213> Homo sapiens